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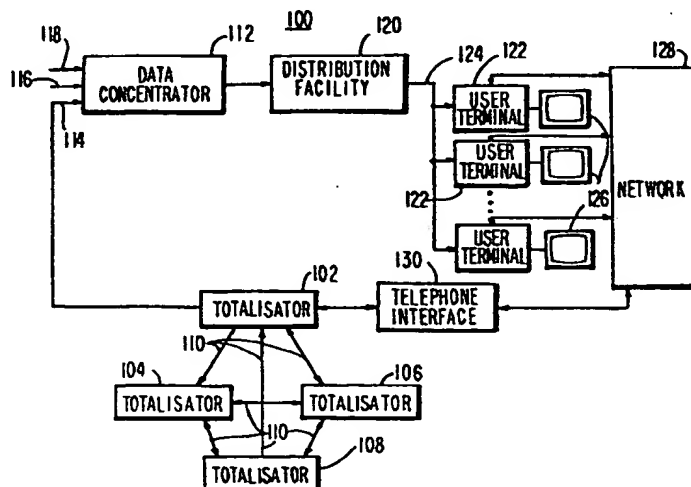
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(54) Title: INTERACTIVE WAGERING SYSTEMS AND PROCESSES



(57) Abstract

Systems and processes for interactive off-track wagering are provided. A user reviews racing information and places bets using an off-track terminal (122, 370). The user interactively selects a desired racetrack and race. Odds, pools, and payoff amounts may be viewed for a variety of complex wager types. To place a wager, the user selects a wager type, wager amount, and the desired runners. Account information can be reviewed. If desired, the user can transfer funds from a bank account to an account used for wagering. Racing videos can be viewed while the user reviews odds and places bets. Video clips of past races can be ordered. Related advertisements can be presented using text or video clips. Merchandise may be ordered interactively. Information regarding system usage may be gathered.

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INTERACTIVE WAGERING SYSTEMS AND PROCESSES

Background of the Invention

This invention relates to interactive
5 wagering systems and particularly to interactive
wagering systems for racetrack wagering. More
particularly, this invention relates to off-track
interactive wagering systems having user terminals for
receiving racing videos and racing information via a
10 medium other than conventional telephone lines and for
displaying this information on a television monitor.

Wagering on sporting events such as horse,
dog, and harness racing is a popular leisure activity.
However, it is sometimes inconvenient to attend racing
15 events in person. Not all racing fans have sufficient
time to visit racetracks as often as they would like
and some fans have difficulties in obtaining suitable
transportation to the track. Thus, there is a need for
wagering services for fans who cannot attend racing
20 events in person.

Off-track betting establishments, which are
generally more readily accessible than racetracks, have
attempted to fill this need. However, a racing fan who

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desires to place a wager still faces the prospect of traveling to the off-track betting establishment.

Wagering via telephone is another option. A user of a telephone-based system typically sets up a telephone account against which wagers may be made. In order to place wagers, the user must interact with a computerized telephone ordering system by pressing appropriate buttons on a touch-tone telephone. This type of system is mainly used for placing wagers. Detailed racing information is typically obtained from other sources, such as printed racing programs.

Another approach for off-track wagering involves the use of dedicated devices that permit two-way serial modem communications with wagering equipment at a racetrack. These devices receive limited wagering information from the racetrack via telephone lines and provide it to a user on a liquid crystal display (LCD) screen. The user places a wager by making entries into the device which are then transmitted to the racetrack using the modem. Typical of this category of off-track wagering device are the Tiny TIM terminal of Autotote Systems, Inc., Newark, Delaware and the terminal sold under the trademark "BetMate" of AmTote, Hunt Valley, Maryland.

Although it is possible to use terminals such as these in the home, doing so would monopolize the users' telephone line at certain times. And because the only data link with the racetrack using terminals such as the Tiny TIM or BetMate terminals is via telephone, it is not possible to receive racing videos with such terminals. In addition, the LCDs in these terminals make it difficult to display racing

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information in a way that may be easily viewed by the user. Because the Tiny TIM and BetMate terminals cannot be used with a television monitor, it is not possible for a user of such a terminal to display
5 racing information on his home television set. Further, systems capable of interacting with off-track wagering terminals that use telephone lines to receive wagering information must provide a large number of simultaneous telephone connections to service each of
10 the of the terminals. Because there is typically an extended connect time associated with each user, such systems are often unwieldy.

In addition, the racing information available through known off-track betting terminals is limited to
15 a subset of the racing information provided by the racetracks. For example, presently available terminals may allow a user to view "win" odds (the amount wagered on a runner to win versus the amount wagered on competing runners to win). However, such terminals do
20 not allow the user to view odds, pools, or predicted payoffs for wagers such as show, place, or more advanced wager types, such as exactas, trifectas, daily doubles, pick threes, pick fours etc.

Further, with presently known terminals, the
25 user cannot receive or display any additional information, such as handicapping information, weather conditions, or information regarding which races at a particular track are available as video transmissions on a given day.

30 It would therefore be desirable to provide interactive wagering systems and processes that provide

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racing data to off-track wagering terminals via a medium other than conventional telephone lines.

It would also be desirable to provide interactive wagering systems and processes that provide
5 racing data to off-track wagering terminals that display the racing data on a home television monitor.

It would also be desirable to provide wagering systems and processes that provide racing data and racing videos to off-track wagering terminals on
10 which the racing data and racing videos are displayed.

It would also be desirable to be able to provide wagering systems and processes that provide an improved level of racing data to off-track wagering terminals.

15 Summary of the Invention

It is therefore an object of this invention to provide interactive wagering systems and related processes for off-track wagering in which a user terminal receives racing data and video signals,
20 displays the racing data on a monitor, and transmits wagers to a wagering facility.

It is also an object of the invention to provide interactive wagering systems and related processes for off-track wagering in which a user
25 terminal receives racing data from a cable headend or other transmission facility.

It is also an object of the invention to provide interactive wagering systems and related processes for off-track wagering in which a user
30 terminal receives racing data within the bandwidth of a television channel.

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It is also an object of the invention to provide interactive wagering systems and related processes for off-track wagering in which a user terminal provides a user with menu options allowing
5 selection of a racetrack, a set of races within a racetrack (e.g., a morning or afternoon "performance"), a race, a wager type, wager amount, and runners.

It is also an object of the invention to provide interactive wagering systems and related
10 processes for off-track wagering in which a user terminal provides racing odds, pools, predicted and actual payoffs, and handicapping information.

It is also an object of the invention to provide interactive wagering systems and related
15 processes for off-track wagering in which a user terminal provides odds for wager types other than win odds, such as the odds for shows, places, exactas, trifectas, daily doubles, etc.

It is also an object of this invention to
20 provide interactive wagering systems and related processes for off-track wagering in which a user terminal receives racing data from a racing data interface and racing videos from a source of racing videos and simultaneously displays the racing data and
25 video signals on a monitor.

It is also an object of the invention to provide interactive wagering systems and related processes for off-track wagering in which a user terminal presents a racing simulcast schedule on a
30 monitor.

It is also an object of the invention to provide interactive wagering systems and related

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processes for off-track wagering in which a user terminal allows a user to calculate a personal power rating based on the selection by the user of personal power rating "weights" for various handicapping categories. The user terminal calculates and displays a corresponding set of personal power ratings for a number of runners.

It is also an object of the invention to provide interactive wagering systems and related processes for off-track wagering in which a user terminal displays race results in the form of prerecorded race videos supplied to a user on demand.

It is also an object of the invention to provide interactive wagering systems and related processes for off-track wagering in which a user terminal alerts a user that a race is about to be run by triggering an alarm.

It is also an object of the invention to provide interactive wagering systems and related processes for off-track wagering in which a user terminal sets a video recorder to record one or more preselected races.

It is also an object of the invention to provide interactive wagering systems and related processes for off-track wagering in which a user terminal transmits transfer instructions that initiate a transfer of funds from a bank account at a bank facility to a wagering account at a wagering facility or allows the user to draw directly from his bank account when placing wagers.

The present invention involves off-track wagering systems and related processes. Racing data

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such as the names and post positions of the runners that are in various races and the current odds and payoffs for those races are provided by a wagering facility (typically based on a system known as a "totalisator" located at a racetrack). Supplemental racing data such as the weather conditions at various racetracks may be provided by additional sources. A computer-based data concentrator processes the racing data from the totalisator and any additional sources and provides the racing data to a television network -- typically at a main distribution node for a cable television network known as the "headend" facility. The cable headend provides the racing data to a number of user terminals. Typically, the cable headend provides the racing data with video signals on at least one television channel. Suitable approaches involve providing the racing data on a sideband or on a separate television channel.

If desired, the racing data may be distributed via satellite. With this approach, the racing data are provided within an available portion of the bandwidth of the television channel either in an available portion of the bandwidth of an analog television channel or as a portion of a digital television channel. Further, the racing data may be provided on a separate satellite channel or may be broadcast using a radio or television broadcast system.

Each user terminal receives the video signals and the racing data and separates out the racing data. Racing data are displayed on a monitor (preferably a conventional television monitor) using display and control circuitry. The racing data that may be

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displayed include odds, pools, and predicted and actual payoffs for selected wager types, races, and runners. The odds, pools, and payoffs for sophisticated wager types, such as exactas, trifectas, and daily doubles
5 may be provided due to the relatively high bandwidth pathway that is made available between the data concentrator and each user terminal.

Another aspect of the invention relates to simultaneously displaying racing videos and racing data
10 on a monitor. Racing data are provided from totalisators and from third party sources. A racing data interface processes the racing data and provides the processed data to a video and data distribution system. The racing video source provides racing videos
15 to the video and data distribution system from a source of racing videos, such as live video feeds from racetracks.

The video and data distribution system may involve satellite distribution or distribution via a
20 cable headend facility. Regardless of the medium over which the racing data and racing videos are distributed, the racing data are preferably provided with the racing videos on at least one television channel. One suitable approach for distribution of the
25 racing data uses a frequency modulated carrier on a sideband of a television signal.

The racing data and racing videos are distributed to a number of user terminals. Preferably, the user terminals display the racing data and racing
30 videos on a conventional television monitor.

The user can review the racing data at the user terminal in a variety of formats. For example,

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odds, pools, predicted payoffs, and actual payoffs can be displayed. Handicapping information can also be displayed. And additional information, such as news, weather, advertising, help, late changes/overweights, and scratches, etc. can be displayed. Based on this information, a user can select a desired racetrack or performance, which is a set of races at a particular track (i.e., a morning performance or afternoon performance). The user can also select a race, a wager type, wager amount, and one or more runners.

When a user has entered all of the data necessary to place a wager, the corresponding wager data are transmitted to a wagering data management system that preferably includes a totalisator for maintaining the user's wagering account. The wagering data management system adjusts the user's account based on the user's wagers. Typically, the user's account is debited when a wager is placed. If, following a race, a user's wager is successful, the wagering data management system credits the user's account accordingly.

Occasionally, the user may wish to transfer funds from a bank account into the wagering account at the wagering data management system. To do so, the user enters the amount to transfer and a personal identification code into the user terminal. This information is transmitted to an appropriate bank facility, which, after verifying the user's account information, authorizes the transfer of the selected amount of funds from the bank account into the wagering account. Alternatively, the user may place wagers directly against his regular bank account. A security

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measure that may be used, either in addition to requiring the personal identification code or as an alternative to the personal identification code is to use a physical key or access device, such as a smart
5 card, magnetic stripe card, or electronic hardware key.

When the user desires to view the results of races that have been run, the user can place an order for a racing video of that race. The user terminal transmits the ordering information to, e.g., the video
10 and data distribution center, which plays back the ordered racing video for the desired race. The user can also instruct the user terminal to trigger an alarm when an upcoming race is about to be run. Either an audible tone or a video message may be used to alert
15 the user of the racing video for the upcoming race. If the user wishes to record a racing video, then the user enters the necessary race information into the user terminal. The user terminal either programs a video recorder to record the desired race at a predetermined
20 time, or directly actuates a video recorder to record the racing video when the appropriate time arrives.

Brief Description of the Drawings

The above and other objects and advantages of the present invention will be apparent upon
25 consideration of the following detailed description, taken in conjunction with the accompanying drawings, in which like reference characters refer to like parts throughout, and in which:

FIG. 1 is a block diagram of a wagering
30 system constructed in accordance with the present invention;

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FIG. 2 is a block diagram of a user terminal suitable for use with the wagering system of FIG. 1;

FIGS. 3-7 are logic flow diagrams illustrating the operation of the wagering system of
5 FIG. 1;

FIGS. 8-28 are illustrative option menus and display screens suitable for use with the illustrative wagering system of FIG. 1;

FIG. 29 is a block diagram of an alternative
10 embodiment of a wagering system in accordance with the present invention;

FIG. 30 is a block diagram of a user terminal suitable for use with the wagering system of FIG. 29;

FIGS. 31-34 are logic flow diagrams
15 illustrating the operation of the wagering system of FIG. 29; and

FIGS. 35-50 are illustrative option menus and display screens suitable for use with the illustrative wagering system of FIG. 29.

20 Detailed Description of the Invention

A schematic block diagram of a wagering system 100 constructed in accordance with the present invention is shown in FIG. 1. Wagering system 100 uses wagering machines known as "totalisators," such as
25 totalisators 102, 104, 106, and 108, to generate wagering odds in realtime based on the wagers placed on racing events at various racetracks. Totalisators are available from companies such as Amtote International, Inc. of Hunt Valley, Maryland, Autotote Limited of
30 Newark, Delaware, and United Tote Company of Shepherd, Montana. Typically, each racetrack has an installed

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totalisator for handling the wagering odds and information at that track. Thus, totalisators 102, 104, 106, and 108 are generally each located at a separate racetrack. Totalisators are also capable of communicating data between one another.

For example, as shown in FIG. 1, totalisators 102, 104, 106, and 108 are interconnected by data lines 110. Totalisators 102-108 communicate between one another using data lines 110 and a communication protocol known as the Intertote Track System Protocol (ITSP). The communication between totalisators 102-108 allows totalisators 102-108 to share pools, thereby allowing racing fans that interact with one totalisator to view odds and place wagers on races at other racetracks.

The odds and other racing data from each of the totalisators connected to totalisator 102 are provided to data concentrator 112. Data concentrator 112 is a computer-based system that receives racing data from totalisator 102 and provides the data to a suitable data distribution system for providing the data to racing fans in their homes. Typical racing data received from totalisator 102 include the current race at each track, which races and tracks are open for wagering, the post times of each race, and the number of races associated with each track. Racing data from totalisator 102 also include the win, place and show "pool" totals for each runner (e.g., a horse) and the exacta, trifecta, and quinella payoff predictions and pool totals for every runner combination. Odds are provided for all races that have not started (i.e., those races for which wagering has not been closed).

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Totalisator 102 also provides the number of minutes remaining until post time for the current race at each track to data concentrator 112.

Other racing data provided by totalisator 102 to data concentrator 112 include race results, such as the order-of-finish list for at least the first three positions and payoff values versus a standard wager amount for win, place, and show, for each associated combination of the finish list. Also provided are payoff values for the winning complex wager types, including exacta, trifecta, quinella, pick-n (where n is the number of races involved in the pick-n wager), and daily double. The payoff values may also be accompanied by a synopsis of the associated finish list.

Further racing data provided by totalisator 102 to data concentrator 112 include the number of runners in each race, the valid wager amounts accepted by totalisators 102-108, and valid wager types accepted by totalisators 102-108. Racing data provided by totalisator 102 also include a scratch list of those runners entered but removed from a race.

Preferably, additional "program information" (racing information typically provided in printed programs) may be provided from totalisator 102 to data concentrator 112. Such program information may include early odds, early scratches, race descriptions (including the distance of each race and the race surface -- grass, dirt, artificial turf, etc.), allowed class ratings (based on a fixed ratio of external criteria), purse value (payoff to winning runner),

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allowed age range of runners, and the allowed number of wins and starts for each runner.

In addition to receiving racing data from totalisator 102 at line 114, data concentrator 112
5 preferably receives supplemental racing data from third party information sources, such as Axcis Pocket Information Network, Inc. of Santa Clara, California, at input 116. Typical supplemental racing data include the post times of each race, jockey names, runner
10 names, and the number of races associated with each track. Weather information is also available from third party data sources. For example, the weather for the city and state in which each racetrack is located can be obtained.

15 More detailed weather information, including track conditions, temperature, humidity, dewpoint, and a short status description of the current weather (sunny, raining, foggy, etc.) may also be provided. Some racing data, such as the data describing regional
20 weather conditions may be widely available in an electronic format. Other racing data may need to be entered manually, via input 118.

Data concentrator 112 processes the racing data received at inputs 114, 116, and 118 and assembles
25 the data into a suitable data format for transmission to distribution facility 120, which is preferably a cable headend. Transmission of the racing data between data concentrator 112 and distribution facility 120 may be via cable, satellite, or any suitable transmission
30 medium with an adequate bandwidth to supply a large quantity of racing data in realtime.

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Typically, large metropolitan cable television networks have at least several headend facilities. Television signals are provided to home viewers from the headends, generally using fiber optic cable and coaxial cable, collectively referred to here
5 as "cable." Television distribution to the home is also possible in a system in which headends or similar facilities capable of data transmission deliver television signals to user terminals 122 via satellite.

10 In wagering system 100, racing data are provided from distribution facility 120 to user terminals 122 via a distribution network 124, which uses either cable wired directly to the home, a system of home satellite receivers, or radio or television
15 broadcasting equipment. An advantage of using cable, satellites, or broadcast systems in distribution network 124 is that video information along with large quantities of racing data may be supplied to a large array of user terminals 122 more economically than with
20 other systems. Although racing data is preferably supplied to the user terminals using the same medium used for video transmissions, this need not be the case. For example, racing data could be broadcast over-the-air while video information is received by the
25 user via cable or satellite. If desired, videos of races can be provided along with the racing data. Using this type of system, the user can receive the racing data continuously, without forcing the wagering system 100 to monopolize the user's telephone line.

30 User terminal 122, which is preferably microprocessor-based, supports software capable of coordinating the receipt and display of racing data and

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the placing of wagers electronically. Preferably, user terminals 122 generate easy-to-read menus on displays 126, which may be, for example, conventional television sets. User terminal 122 executes instructions that

5 enable terminal 122 to process the racing data received from distribution facility 120 and display the data on display 126 in a suitable format. The user can interact with user terminal 122 using any suitable user interface, such as a keyboard, pointing device, or

10 voice-actuated controller. Preferably, the user interacts with user terminal 122 using an infrared or other suitable type of wireless remote control.

In order to place wagers, a user typically establishes an account associated with a totalisator

15 (e.g., at a particular racetrack). The user's account balance and other wagering transactional information is stored in the totalisator. Preferably, user terminal 122 includes suitable communication circuitry to establish a communications link with totalisator 102.

20 One suitable method of establishing such a link is to use modem communications between user terminal 122 and totalisator 102. For example, telephone network 128 and telephone interface 130 support two-way communications between user terminal 122 and

25 totalisator 102. If a user desires to place a wager, the data necessary to execute the transaction are transmitted via network 128. Telephone interface 130 processes the wager data so that the data may be received by totalisator 102. For example, if many

30 incoming signals are received at once, telephone interface 130 receives them in parallel. Typically, once the user places a wager the user's account at

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totalisator 102 is debited. If the user's wager pays off, the user's account at totalisator 102 is credited by the appropriate amount.

User terminal 122 is shown in more detail in
5 FIG. 2. Microprocessor 132 is connected to memory 134 -- preferably a read-only memory (ROM) -- and memory 136 -- preferably a random-access memory (RAM) via bus 138. Bus 138 is also used to interconnect
microprocessor 132 and memory 134 and 136 with display
10 and control circuitry 140. Display and control circuitry 140 coordinates the operation of the various display, control, and communications peripherals of user terminal 122. Memory 134 and memory 136 contain instructions that are executed by microprocessor 132.
15 Microprocessor 132 operates in conjunction with display and control circuitry 140 to direct the operation of user terminal 122.

Racing data and video signals are received at
input 142 of FM receiver/analog-to-digital converter
20 144. The racing data are transmitted on an FM carrier in an open range within the bandwidth of the video signals. FM receiver/analog-to-digital converter 144 separates out the racing data signal and demodulates it to a digital format that is processed by display and
25 control circuitry 140. The video signals received at input 142 are passed to multiplexer 146. When the user desires to view video programs corresponding to the video signals received at input 142, multiplexer 146 is switched to allow the video signals on line 148 to pass
30 to monitor 126 (FIG. 1). The control signals used to switch multiplexer 146 may be provided by display and

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control circuitry 140 via line 152. Preferably, monitor 126 (FIG. 1) is a conventional television set.

The racing data that are received by user terminal 122 are stored in memory 136, so that
5 microprocessor 132 can process this information as desired by the user. The user controls the functions of user terminal 122 via input interface 154, which is preferably a combination of a remote control 156 and a receiver 158. Based on user commands received via
10 input interface 154, display and control circuitry 140 displays various information on monitor 126 (FIG. 1) using video generator 160 and display memory 162. The information to be displayed on monitor 126 (FIG. 1) is provided at output 164 of video generator 160. Display
15 and control circuitry 140 generates an appropriate control signal on line 152, so that the output of video generator 160 is provided to monitor 126 (FIG. 1) via multiplexer 146.

User terminal 122 also has transaction data
20 communication circuitry 166 provide a two-way communications link between user terminal 122 and totalisator 102 (FIG. 1). Transaction data communication circuitry 164 may be based on any suitable communication circuitry such as conventional
25 modem circuitry for communicating via telephone lines. If the distribution network 124 (FIG. 1) supports two-way communications, then transmission and communication circuitry 164 may include appropriate back-haul circuitry to provide a communications link with
30 totalisator 102 (FIG. 1) via a return path over distribution network 124 (FIG. 1) rather than over network 128 (FIG. 1).

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In order to place wagers, the user must typically supply a personal identification code to the totalisator 102 (FIG. 1) at which the user maintains an account. The personal identification code is
5 transmitted using the transaction data communication circuitry 166. By transmitting the personal identification code to totalisator 102 (FIG. 1) when placing a wager, the totalisator 102 (FIG. 1) can ensure that the user's personal identification code
10 matches an authorized code, and can verify the user's account balance prior to authorizing the wager. As an added measure of security, user terminal 122 preferably also has a non-volatile storage device 169, which is used to maintain a local account balance and which
15 contains a user's personal identification code. Suitable non-volatile storage devices include magnetic stripe cards and electronic hardware keys. Physical keys can also be used to provide additional security, if desired.

20 Preferably, non-volatile storage device 169 includes a smart card interface 168 that accepts smart card 170. Smart card interface 168 allows account and account verification information to be stored on smart card 170. Smart card 170 must be inserted in smart
25 card interface 168 in order to place a wager. Thus, if a user removes the smart card 170, no wagers can be placed against that user's account by a third party, even if the user's personal identification code is known by that party.

30 In operation, user terminal 122 displays various menus of options on monitor 126 (FIG. 1). The menus can be invoked by pressing an appropriate "enter"

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button on remote control 156. Remote control 156 also has cursor keys that allow the user to cursor forward and backward and up and down through the menus. In order to leave the system, the user presses an "exit" button on remote control 156.

The logical flow of the operation of wagering system 100 (FIG. 1) including menus and options provided by user terminal 122 (FIG. 2) is summarized in FIGS. 3-7. As shown in FIG. 3, at step 172 the user selects between several available options: "today's race tracks," "account information," "news and information," and "bet on the next race." A menu 174 corresponding to step 172 is shown in FIG. 8. As shown in FIG. 8, menu 174 preferably contains corporate logo 176 and date and time information 178. Menu options 180, 182, 184, and 185 are preferably displayed in the center of screen 186. To the left of menu options 180, 182, 184, and 185, are cursor boxes 186, 188, 190, and 191. In FIG. 8, cursor 192 is positioned adjacent to the next available menu option -- option 180, thereby "highlighting" that option. When a user desires to select the highlighted option, the user presses "enter" or the "right" cursor key on remote control 156 (FIG. 1). If the user wishes to select a different menu option, the user moves the cursor to the next lower or higher menu option on menu 174 using cursor up/down keys on remote control 156 (FIG. 2).

As shown in FIG. 3, if the user selects "today's racetracks" (menu option 180 in FIG. 8) at step 172, the user may then select a desired racetrack at step 196. A menu corresponding to step 196 is shown in FIG. 9. Racetrack menu options 198, 200, and 202

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are racetracks available for wagering. Preferably, the list of available racetracks is provided by distribution facility 120 (FIG. 1) to user terminals 122 (FIG. 1), so that by controlling this list it is possible to "black out" certain racetracks.

Cursor 192 is used to highlight the desired track. The menu option adjacent to cursor 192 is also preferably highlighted by changing the color etc. of the option. The next race available for wagering at each racetrack and its corresponding post time are preferably listed adjacent to each track name. For example, the next available race at the Pimlico racetrack is race 3, which has a post time of 1:56. As with the available racetracks, the list of which races are scheduled is preferably provided to user terminals 122 (FIG. 1) by distribution facility 120 (FIG. 1). Accordingly, if it is desired to limit which races are available to the user, this may be done by making this selection at distribution facility 120.

After selecting a track, such as Pimlico, at step 196 (FIG. 3), the user selects a race at step 204 (FIG. 3). The race selection menus 206 and 208 for the Pimlico racetrack are shown in FIGS. 10 and 11. Preferably, the data in menus such as menus 206 and 208 and other menus/screens that are used to display racing data are periodically automatically updated (e.g., at least every 15 minutes) to reflect the most current racing data. To update the display automatically, user terminal 122 (FIG. 1) may display racing data as it is received from distribution facility 120 (FIG. 1) in realtime, or may update the display at predetermined

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time intervals, based on the most recently acquired data.

Menu 208 is illustrative of a type of menu that may be used whenever it is desired to display more information than fits easily onto a single screen. Races 1-8 are listed on menus 206 and 208. As shown in FIG. 10, the letter "F" is placed adjacent to races 1 and 2 to indicate that those races have been run and for which the results have been declared final. No wagers can be placed on these races. When menu 206 is displayed (at step 204 of FIG. 3), cursor 192 is placed at a default position adjacent to race 3, because that is the next race available for wagering. As shown in the upper left corner of menu 206, an abbreviation of the racetrack (in this case "PIM" for Pimlico) is displayed to remind the user of the currently selected racetrack. A user selects a desired race by moving cursor 192 to a race and pressing "enter" or an equivalent action button on remote control 156 (FIG. 2).

Returning to FIG. 3, after the user has selected a race at step 204, the user is presented with a menu of available options at step 212. For example, the user can place a wager or view current odds/probables, handicapping data, race results, or weather. If the user chooses to place a wager, the viewer selects an amount to wager at step 214. The amounts available for wagering are preferably transmitted to user terminals 122 (FIG. 1) from distribution facility 120, so that it is possible to limit which wagering amounts are available to the user as desired. Preferably, the user can select the wager

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amount using an interactive menu such as menu 216 shown in FIG. 12. On the left of menu 216, current odds 218 are listed for each of the runners (e.g., 1-9).

Typically, win odds are listed. Thus, as shown on
5 menu 216, the odds for runner 1 winning race 3 are 20 to 1.

The racetracks, races, wager types, wager amounts, and various other menu options that are available to the user at user terminal 122 (FIG. 1) may
10 be controlled from the distribution facility 120 (FIG. 1). For example, the distribution facility 120 can limit the content of its transmissions to user terminals 122 (FIG. 1), so that only certain features are available. If it is desired to black out a given
15 racetrack, then the racing data (and any accompanying instructions to be executed by user terminal 122 of FIG. 1) for that racetrack are not provided to user terminals 122. With this approach, the menu options of user terminals 122 (FIG. 1) may be configured on a
20 system-wide basis.

If desired, user terminals 122 (FIG. 1) may also be individually addressable, which allows distribution facility 120 (FIG. 1) to provide different types of service to different sets of user terminals
25 122 (FIG. 1). Any suitable addressing technique may be used. For example, an addressing technique similar to that used in conventional addressable cable converter units may be used. User terminals 122 (FIG. 1) may be provided with preprogrammed authorization codes when
30 they are manufactured or a user may be provided with an appropriate authorization code to enter into user terminal 122 (FIG. 1) (e.g., using remote control 156

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or smart card 170). Distribution facility 120 (FIG. 1) transmits the racing data and any instructions that are to be executed by microprocessor 132 and display and control circuitry 140 (FIG. 2) in transmission blocks containing an authorization code. User terminals 122 (FIG. 1) compare each incoming transmission block with their authorization code. When the code matches, racing and other data within the transmission block are accepted for use by that user terminal 122 (FIG. 1).

Individual addressability allows selected subsets of user terminals 122 (FIG. 1) to be permitted to have access to certain racetracks, sets of races, wager types, or wager amounts. Because distribution facility 120 (FIG. 1) can provide preselected features to selected subsets of users, it is possible to provide various tiers of service, etc.

As shown in FIG. 12, on the right of menu 216 is an abbreviation 220 of the currently selected racetrack (i.e., "PIM" for Pimlico). Current race 222 is also listed (i.e., race 3). Information such as the current time and the time remaining to post time is displayed in box 225. Preferably, the post time blinks or otherwise changes its appearance within a certain predefined time window prior to a race, so as to provide a visual clue that the start of the race is approaching.

When first presented to the user, menu 216 has a highlighted portion 224 (e.g., \$5). The user selects the desired wager amount by moving highlighted portion 224 using the up/down and left/right cursor keys of remote control 156 (FIG. 2). When highlighted portion 224 rests on the desired wager amount, the user

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presses the enter key on remote control 156 (FIG. 2). Highlighted portion 224 is then placed on the done box 226. If the user is ready to proceed, the user presses the enter key on remote control 156 (FIG. 2). If, instead, the user wishes to return to menus 206 and 208 (FIGS. 10 and 11), which correspond to step 212 (FIG. 3), then the user highlights and selects go back box 228.

As shown in FIG. 3, following selection of the wager amount at step 214, the user selects a desired type of wager at step 230. A typical wager type selection menu 232 is shown in FIG. 13. Additional wager types can be supported by providing additional wager selections on wager selection menu 232. Preferably, the wager types available at selection menu 232 are determined by distribution facility 120 (FIG. 1). Thus, the wager types available to the user may be controlled by limiting what information is transmitted from distribution facility 120 (FIG. 1) to user terminals 122 regarding wager types. Highlighted portion 234 initially rests on one of the wager types, such as WPS, which stands for win, place, and show. Other available wager types include, but are not limited to, WIN (win), PLC (place), SHW (show), WP (win-place), WS (win-show), and EXA (exacta). Suitable wager types also include trifecta, quinella, daily double, and pick-n type wagers (where n is a value from, e.g., 3 to 10).

Preferably, menu 232 is similar in appearance and layout to other menus, such as menu 216 (FIG. 12), so that the user is presented with a fairly uniform interface. For example, odds are shown at the left of

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menu 232, just as they are shown at the left of menu 216 (FIG. 12). Similarly, the racetrack abbreviation, race number, current time, and time remaining to post are shown on the right of menu 232 in the same way that
5 this information is displayed in menu 216 (FIG. 12). By changing the overall layout of the menus as little as possible from one screen to the next, viewer confusion is minimized and screen storage requirements for the user terminal 122 are reduced. An additional
10 item in menu 232, which is not shown in the wager amount menu 216 of FIG. 12, is selected wager amount 236 (\$5 in the example of FIG. 13).

As shown in FIG. 14, the user selects the desired bet amount by moving highlighted portion 234 to
15 the desired wager type and pressing the enter key on remote control 156 (FIG. 2). In FIG. 14, an exacta wager was chosen by selecting EXA box 238. The selected wager type may be indicated in any suitable fashion, for example, by changing the color of the
20 wager type box. Further, as shown in FIG. 14, code 240 corresponding to the selected wager type can be displayed. After an exacta wager (or any multi-leg single race wager) is selected, highlighted portion 234 is either automatically placed on BOX 242 or,
25 preferably, onto DONE 243 with the ability to move the cursor onto BOX 242 to allow a user to place a box bet (any multi-leg wager where the first leg or list of runners is used for all legs of the wager). Placing a
30 box bet is a simplified method of placing a wager using the same runner list for each leg of a multiple leg wager.

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After selecting the wager type at step 230 of FIG. 3, the user selects runners at step 244. As shown in FIG. 15, for an exacta wager the user selects one or more runners for first leg 246 and second leg 248. If
5 more than one runner is selected per leg, the number of possible exacta wager combinations is automatically calculated and the total cost of the wager updated accordingly at box 250. When all desired runners have been selected, the user selects done box 252, which
10 causes the system to proceed to step 254 in FIG. 3.

In step 254 (FIG. 3), wager queue menu 256 is displayed, as shown in FIG. 16. Each wager is summarized on a line adjacent to a wager number 258. In the example shown in FIG. 16, the first wager is a
15 an exacta wager on the third race at Pimlico. Shown at the bottom of menu 256 are the menu options send/delete, more bets same race, more bets other race, and main menu. These menu options are displayed at step 258 (FIG. 3) when the wager queue is not full.
20 Typically, the wager queue can contain up to five wagers. Before additional wagers can be added, the wagers in the queue must be sent to the racetrack. If the wager queue is full following step 254 (FIG. 3), then the menu choices of delete a wager, send wagers,
25 duplicate a wager, and main menu are displayed at step 260. The menu options made available at step 260 are limited by the state of the queue. For example if the queue is full, the option "duplicate a wager" will not be available, etc. A typical menu 262 on which
30 these options are displayed is shown in FIG. 17.

The menu options listed in menus 256 and 262 (FIGS. 16 and 17) allow the user to modify the wagers

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listed in the queue, make additional bets, etc. For example, as shown in FIG. 3, if at step 258 the user selects "more bets same race," the user is returned to step 214, at which a new wager amount can be selected.

5 The user can then proceed through steps 230, 244, 254, etc. as described above. If at step 258 the user selects "more bets other race," the user is returned to step 204, at which a new track may be selected. Another option at step 258 is to return to the main

10 menu. If "main menu" is selected, the user is returned to step 172.

If the user selects "send/delete" at step 258 then the system proceeds to step 260 (menu 262 in FIG. 17). At step 260, the user has the option of

15 deleting a wager that is no longer desired. For example, if the user wishes to delete wager 1, the user moves the highlighted portion of the menu to wager 1 and presses the enter key on remote control 156 (FIG. 2), whereupon the information for wager 1 is

20 removed from menu 262 (FIG. 17). If "duplicate a wager" is selected, the user can make a copy of a wager, which appears on the next available wager line. Thus, if wagers 1 and 2 are filled, the user can

25 position the highlighted portion of menu 262 (FIG. 17) adjacent to wager 1 and press enter. Wager 1 will then be duplicated as wager 3.

In order to place wagers, the wager information entered onto menu 262 must be sent to totalisator 102 (FIG. 1) via network 128 (FIG. 1). At

30 the same time that a wager is sent, the user must transmit his personal identification code to allow the totalisator 102 (FIG. 1) to verify the status of the

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account against which the wager is to be placed.

Totalisator 102 adjusts the user's account to reflect the results of the wager. If sufficient funds exist in the account, and if the wagering information is

5 otherwise satisfactory, totalisator 102 (FIG. 1) will accept the wager and will typically debit the account. If the wager pays off, the account will be credited by the appropriate amount.

When a user is ready to send a wager to
10 totalisator 102 (FIG. 1), the user selects "send wagers" from menu 262 in FIG. 17. Preferably, if no smart card is present, a message appears on monitor 126 (FIG. 1) instructing the user to insert smart card 170 (FIG. 2). The user is next instructed to enter his
15 personal identification code using remote control 156 (FIG. 2). The personal identification code is compared to a prestored personal identification code on smart card 170 (FIG. 2). If, from comparison of the entered personal identification code to the personal
20 identification code stored on card 170 (FIG. 2), it is determined that the user is authorized to use the account, then the transaction data necessary to place the wager with totalisator 102 (FIG. 1) are sent to totalisator 102 (FIG. 1). During the process of
25 sending the wager information to totalisator 102 (FIG. 1), the user is preferably provided with messages on monitor 126 (FIG. 1) that indicate when the system is dialing and sending the data, and when it has been confirmed that the wager has been sent.

30 If, instead of selecting "place wager" at step 212, the user selects "current odds/probables," the system proceeds to step 264, as shown in FIG. 4.

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At step 264, the user is presented with a menu listing which odds and statistics are available for viewing. If the user selects "odds/pools" at step 264, the user is passed to step 266, in which odds and pools are
5 preferably displayed in a format shown in FIG. 18. In chart 268, the win odds for each runner are displayed adjacent to the number of that runner. Also listed in chart 268 are the dollar amounts of each pool of placed wagers for each bet type (win, place, or show). At the
10 bottom of chart 268 is a total of all pools for each wager type: win, place, and show.

Wager odds for wager types other than win odds can also be shown. For example, show or place odds can be displayed. With previously known off-track
15 terminals it has not been possible to display show and place odds. Accordingly, if a home racing fan desired such information, he would need to make calculations by hand. In contrast, with the present invention, user terminal 122 processes the racing data provided by
20 totalisator 102 (FIG. 1), so that odds for many wager types are available. The user can therefore quickly and accurately review these odds interactively in the home.

Information regarding exacta, trifecta, and
25 other complex wager pool totals and payoff values for the various wager combinations may be selected at step 264 (FIG. 4). Any suitable display format may be used to show the desired information. A typical exacta pays screen 272 is shown in FIG. 19. Win odds are
30 listed for each runner and predicted exacta payoffs are listed for each of the possible exacta combinations of runners. Thus, if there are nine runners there are

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typically nine screens 272. The first screen 272 lists the payoffs for runner 1 as a first place finisher (1 and x), where x is each of runners 2-9. Also listed are the payoffs for runner 1 as a second place finisher (x and 1). Subsequent screens are used to provide information for other runners. For example, the second screen 272 lists the payoffs for runner 2 as a first and second place finisher. Another item listed on screen 272 is exacta pool 274.

10 The odds and payoffs for other sophisticated wager types, such as trifectas, daily doubles, pick three, pick four, etc. can be listed in the same fashion if desired. Due to the limited nature of previously available off-track betting terminals, it has not been possible to determine odds and payoff information for many sophisticated wager types. For example, it has not previously been possible to determine odds for various combinations of runners within the complex wager types. With the present invention, complex wagering information may be calculated and displayed by user terminal 122 (FIG. 2). Because it has not previously been possible to display such detailed information using an off-track terminal, such information has either been completely unavailable or has only been available to racing fans who have traveled to the racetrack or to off-track betting establishments.

 In addition, an advantage of the present system is that the user can interactively control the display of the odds and payoffs screens for the various wager types. For example, the user can move forward or backward through the wager information screens, such as

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screen 272 (FIG. 19), which shows the predicted payoff amounts if a particular runner combination wins an exacta wager. Previously known methods of displaying such information involve providing a non-interactive
5 scrolling list of the information, e.g., on a monitor at a racetrack. But with that method it is necessary to wait until the information one wishes to view is presented on the monitor. In contrast, with the present invention the user can interactively advance
10 forward and backwards through the screens such as exacta pays screens 272 as desired.

Returning to step 212 (FIG. 3), another menu option that can be selected by the user is to view handicapping data. If "handicapping data" is selected
15 at step 212 (FIG. 3) then the user is presented with a menu of available handicapping data as shown at step 276 in FIG. 5. Preferably, the menu options available at step 276 include: snapshot power ratings, speed-class ratings, pace ratings, and jockey/trainer. If
20 "snapshot power ratings" are selected at step 276, power ratings are displayed at step 277 (FIG. 5) on screen 278, as shown in FIG. 20. At the top of power ratings screen 278 is a banner including information such as race number 280 (e.g., race 1), race
25 distance/surface 282 (e.g., 5 Furlongs on dirt), amount claimed 284, class rating 286, and runner age 288.

Below this banner, more detailed information pertaining to each runner is preferably listed. For example, runner name 290, number of days off since the
30 last race 292, wins/starts for the selected surface and distance category 294, morning odds 296, and power rating 298. The information necessary to make up

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screen 278 may be provided to the wagering system 100 (FIG. 1) via input 116 (FIG. 1).

In addition to displaying snapshot power ratings, a user can choose to display speed/class ratings at step 276 (FIG. 5). If "speed/class ratings" is selected at step 276 (FIG. 5), then at step 300 (FIG. 5) screen 302 of speed/class ratings is displayed, as shown in FIG. 21. Screen 302 preferably contains information banner 304, as in screen 278 (FIG. 20). Also in screen 302 are runner name 306, speed rating 308, speed rating for this distance and track surface 310, highest speed rating for this distance and track surface 312, class rating 314, and class rating of last race 316.

Another option is available if the user selects "pace ratings" at step 276 (FIG. 5). Selecting "pace ratings" takes the user to step 318 (FIG. 5), at which pace ratings screen 320 is displayed, as shown in FIG. 22. As with screen 278 (FIG. 20) and screen 280 (FIG. 21), screen 320 contains handicapping data for each runner. Preferably, screen 320 contains typical position at early call 322, typical position at middle call 324, typical position at finish 326, and number of races in calculation 328.

A further display of handicapping data is available if the user selects "jockey/trainer" at step 276 (FIG. 5). If jockey/trainer is selected, control passes to step 330 (FIG. 5), at which screen 332 is displayed, as shown in FIG. 23. Screen 323 contains handicapping information about the jockeys and trainers for each runner. Typically, such information includes jockey and trainer names 334 and information about

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recent race statistics 336. Other jockey/trainer information that can be provided includes information relating to jockey changes and overweights for each runner.

5 Returning to FIG. 3, another option available at step 212 is to display race results. If the user selects "results" at step 212, the results of the race selected at step 204 are displayed on the display 126 (FIG. 1) at step 338. One suitable format for
10 displaying race results is shown in FIG. 24. Runner numbers 340 are displayed as well as payoffs for a standard wager (e.g., \$2) for win, place, and show bets. If desired, results can also be displayed for the more sophisticated wager types such as exactas,
15 trifectas, daily doubles, pick three, pick four, etc.

The present invention allows the user to interactively control the display of the race results screens. For example, the user can select a track and page through the results for the various races at that
20 track. Preferably, the user can use the cursor keys on remote control 156 (FIG. 2) to move between the race results screens for various races.

Another option available at step 212 in FIG. 3 is for the user to view weather and track conditions
25 for a selected racetrack. If the user selects "weather/conditions" at step 212, weather information is interactively presented at step 342. The weather for the city and state in which the selected racetrack is located is preferably displayed, as is more detailed
30 weather information, including track conditions, temperature, humidity, dewpoint, and a short status

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description of the current weather (sunny, raining, foggy, etc.).

If the user selects "account information" (menu option 182 in FIG. 8) at the initial menu displayed at step 172 (FIG. 3), the menu options "bet queue," "account information," and "transaction history" are displayed at step 344, as shown in FIG. 6. If "bet queue" is selected at step 344, the queue is viewed at step 346 and control then passes to step 260 (FIG. 3). At step 260, the user can select from the menu choices "delete a wager," "send wagers," "duplicate a wager," and "main menu," as described above.

If "transaction history" is selected at step 344 in FIG. 6, the user terminal 122 (FIG. 2) preferably retrieves information concerning recent transactions such as wagers placed and the results of these wagers from smart card 170 (FIG. 2) at step 348. If desired, this information can be retrieved remotely, from totalisator 102. Using the retrieved information, the user's transaction history is displayed at step 350. After the user is finished reviewing the recent transaction history, the user is returned to step 172 (FIG. 3), where the initial menu options are displayed.

If the user selects "account balance" at step 344, at step 351, the user selects whether to retrieve his account balance remotely, from totalisator 102 (FIG. 1), or locally at terminal 122, from smart card 170. If the user selects "remote" at step 351, then the user enters his personal identification code at step 352. User terminal 122 (FIG. 2) then obtains current account information from totalisator 102 (FIG.

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1) and displays this information at step 354. If the user selects "smart card" at step 351, then the user enters his personal identification code at step 353. User terminal 122 (FIG. 2) then obtains current account
5 information from smart card 170 (FIG. 2) and displays this information at step 355. Preferably, information retrieved from smart card 170 (such as account balances) is for informational purposes only. No wagers can be authorized solely through the account
10 information on smart card 170 (FIG. 2). This prevents unauthorized wagering if the card is tampered with. After the user is finished reviewing the account balance at step 354 or step 355, the user is returned to step 172 (FIG. 3), where the initial menu options
15 are displayed.

The benefit of storing account and transaction history information locally on smart card 170 (FIG. 2) is that it is not necessary to communicate with totalisator 102 (FIG. 1) each time it is desired
20 to review such information. Because the user does not need to communicate with totalisator 102 (FIG. 1) for routine transaction history and account balance queries, the user avoids any fees that may be associated with such queries. The user also reduces
25 the frequency with which he needs to use his telephone line. Further, data corresponding to additional wagering transactions, such as recent wagering activity, may be stored on smart card 170 (FIG. 1).

The account and transactional information for each
30 user is preferably stored on his individual smart card 170 (FIG. 2). This allows the user to visit other homes in which there are user terminals 122 (FIG. 1),

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without losing ready access to his account information. Alternatively, the account and transactional information can be stored in a suitable memory device in user terminal 122 (FIGS. 1 and 2).

5 Another menu option available at step 172 of FIG. 3 is the option to view news and information. If "news and information" (menu option 184 in FIG. 8) is selected at step 172, a submenu of news and information options is displayed at step 356, as shown in FIG. 7.

10 The illustrative menu options displayed at step 356 include the option of viewing information about schedule times for racing video simulcasts available to the user. Racing simulcasts may be available via satellite, cable, broadcast, or other suitable video

15 transmission medium. Typically, not all of the races run at the various racetracks are simulcast on television. Certain racetracks may not wish to create a disincentive for racing fans in the area to visit the track in person. For other racetracks there may not be

20 sufficient demand to warrant the effort of televising all of the races. And because the post times of races are typically determined locally by the management of the racetrack, they may be subject to last minute changes or unforeseen delays. For each of these

25 reasons, it is difficult or impossible for a user to accurately determine which races are currently available via simulcast. Accordingly, with the present invention, when the user selects "simulcast schedule" at step 356, a current schedule listing the races

30 available via simulcast is displayed.

Other menu options available at step 356 include commercial advertisements. As shown in FIG. 7,

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menu option 358 is an advertisement called "Laurel on the Air," which could be, for example, local advertising for upcoming events on television or radio relating to the Laurel racetrack. An illustrative
5 listing for Laurel on the air is shown in FIG. 25.

Menu option 360, entitled "handicapping seminar" could be, for example, an advertisement for an upcoming seminar on handicapping techniques to be presented at a particular racetrack. An illustrative
10 handicapping screen is shown in FIG. 26.

Menu option help 362 allows the system to display help information. For example, explanations of how to use the terminal 122, how to place certain types of wagers, or how to handicap effectively may be
15 provided. A submenu that may be provided after menu option help 362 has been selected includes menu options "using the system," "how to bet," and "handicapping information." FIG. 27 shows a screen that can be displayed if "using the system" is selected. FIG. 28
20 shows a screen that can be displayed if "how to bet" is selected followed by information on "win, place, and show" bets. Information on additional wager types is preferably available by pressing an advance or equivalent cursor on remote control 156 (FIG. 2). If
25 "handicapping information" is selected from the submenu, then descriptions of the various types of handicapping information available (see, e.g., FIGS. 20-23) are provided. The menu option 364 (FIG. 7) entitled "other" allows additional information to be
30 provided.

The news and information menu options available at step 356 are illustrative only. As

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explained in connection with descriptions of further
embodiments of the present invention, additional
features may be added if desired, such as the ability
to add video information to the services described
5 above.

If desired, "hot" buttons may be used to
provide shortcuts through the menu hierarchy of FIGS.
3-7. For example, a hot button 185 labeled "bet on the
next race" may be provided as menu option 185 in FIG.
10 8. If the user selects this option at step 172 (FIG.
3), the user terminal 122 (FIG. 2) determines which
upcoming race is the next race available for wagering.
The user terminal 122 (FIG. 2) then presents the user
with the option of selecting the wager amount for that
15 race at step 214 (FIG. 3). Hot button 185 therefore
allows the user to bypass selection steps 196, 204, and
212 (FIG. 3), which the user would otherwise need to
pass through. Preferably, any hot button arrangement
of the present invention allows the user to bypass "one
20 or more selection steps (also called "menu layers").
Hot buttons thus allow quicker movement through various
layers of menus than would otherwise be possible (e.g,
using a conventional tree-type menu structure without
hot buttons).

25 Further aspects of the present invention are
illustrated in connection with wagering system 366,
shown in FIG. 29. Many features of wagering system 336
may be provided using an arrangement similar to
wagering system 100 (FIG. 1), if desired. Wagering
30 system 366 has a video and data distribution system 368
for distributing racing data racing videos to user
terminals 370. The video and data distribution system

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368 may be based on any suitable conventional distribution technology, such as satellite transmission, cable television transmission, or television broadcasting. Video and data distribution system 368 receives racing data from racing data interface 372. This signal feed typically has a significantly lower data-rate requirement than live video signals. Accordingly, the racing data transmitted from racing data interface 372 to video and data distribution system 368 may use any of a number of available signal distribution technologies. For example, leased telephone lines may be provided between racing data interface 372 and video and data distribution system 368. Alternatively, racing data may be transmitted by satellite at this stage.

Racing videos, which are received from racing video source 374, preferably use a high-capacity transmission medium such as satellite transmission or cable transmission for at least part of the signal pathway between the point of origination of the video signals and video and data distribution system 368. For example, one suitable source of racing videos is the simulcast transmission of video signals from racetracks. These racing videos can be transmitted by a combination of cable and satellite to a centralized racing video source 374, from which the videos may be transmitted to video and data distribution system 368 via satellite. Alternatively, the racing video may be archived on video tape or another video storage medium, so that the racing video source 374 should include suitable video playback equipment (not shown). Archived racing videos can be played back according to

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a predetermined schedule, or according to viewer demand.

Regardless of the source of the racing video signals provided at racing video source 374, and
5 regardless of the medium used to transmit these videos from racing video source 374 to video and data distribution system 368, the racing videos are preferably available for the user to watch at home while the user simultaneously has access to the racing
10 data provided by racing data interface 372. Because real time racing video clips require the full bandwidth of a television channel (although the video could be compressed somewhat using conventional data compression techniques), data and video link 376 between video and
15 data distribution system 368 and user terminals 370 must at least have the capacity of a single television channel. Preferably, the racing videos are distributed over a dedicated racing channel. Racing data may be distributed using any suitable data distribution
20 technique, such as transmission over a sideband or during the vertical blanking interval of the dedicated channel.

Video and data distribution system 368 includes a cable headend facility, satellite facility,
25 or broadcast facility that preferably supplies a full range of conventional television channels to the user in addition to the capability of providing a dedicated racing channel to the user. When the user desires to watch television, the user can tune to one of these
30 channels. The user can tune to a television channel using a user terminal 370 in conjunction with a monitor 378, which is preferably a conventional television set.

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If user terminal 370 does not contain a tuner capable of tuning to all of the available channels, or if it is desired to bypass the terminal 370 for other reasons, the user can watch television on monitor 378 directly, provided that monitor 378 includes a television tuner.

Thus, a number of alternative approaches can be used to provide racing videos and racing data to the user. However, a common element to all of these approaches is that video and data distribution system 368 be capable of delivering racing video signals from racing video source 374 to user terminals 370 in realtime. The video and data distribution system 368 also delivers racing data to user terminals 370. Thus, wagering system 366 avoids the shortcomings of previously known systems in which no racing videos could be provided to user-controllable terminals and in which limited racing data were at best provided to off-track terminals via telephone lines.

Racing data are provided by a number of sources, including wagering data management system 380. Wagering and data management facility 380 may be a totalisator such as totalisators 382, or may be a stand-alone computer system capable of communicating with totalisators 382. If desired, wagering data management facility 380 may include an accounting capability for managing user accounts.

The type of racing data provided to racing data interface 372 by wagering and data management facility 380 typically includes the current race at each track, which races and tracks are open for wagering, the post times of each race, and the number of races associated with each track. Racing data also

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include the win, place and show "pool" totals, exacta, trifecta, quinella and other wager payoff predictions, and the actual odds for the current race at each track, as well as the "morning line" odds for any future race.

- 5 In addition, racing data typically include the number of minutes remaining until post time for the current race at each track.

Racing data provided by wagering data management facility 380 also include race results, such
10 as actual payoff values versus a standard wager amount for win, place, and show wagers. Also provided are actual payoff values for the winning complex wager types, including exacta, trifecta, quinella, pick-n (where "n" is the number of races involved in the
15 pick-n wager), and daily double. Payoff values may also be accompanied by a synopsis of the associated finish list.

In addition, pools, payoffs, and odds may be provided for other wager types, such as omni bets,
20 superfectas, and double-triple bets.

The racing data from wagering data management facility 380 further include program information including the number of runners in each race, valid
wager amounts and types accepted by racetracks, scratch
25 lists, distances of each race, and race surfaces. Program information also includes race classification information, the purse, the allowed age range of runners, and the allowed number of wins and or starts for each runner. Racing data from wagering data
30 management facility 380 are delivered to racing data interface 372 via data link 384, which may be any

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suitable data transmission medium, such as a leased telephone line, cable, satellite, etc.

Racing data interface 372 also receives racing data via supplemental input 386 and manual input 5 388. The racing data received at inputs 386 and 388 include racing data from third party information sources such as Axcis Pocket Information Network, Inc. of Santa Clara, California. Such third party racing data typically include post times, the number of races 10 associated with each track and other information that typically is only provided via a printed racing program. Weather information, such as track conditions, temperature, humidity, dewpoint, and a short status description of the current weather (sunny, 15 raining, foggy, etc.) may also be provided via inputs 386 or 388.

Wagering data management facility 380 preferably includes the capability of either maintaining a user's account or communicating with a 20 user's account located at one of totalisators 382. Totalisators communicate with one another via the well-known Intertote Track System Protocol (ITSP). Racing fans using user terminals 370, communicate with wagering data management facility 380 via communication 25 lines 390, network 392 and transaction data interface 394.

In accordance with one aspect of the present invention, communication lines 390 are telephone lines, network 392 is a telephone network, and transaction 30 data interface 394 is an automated modem system for receiving incoming transaction data from communication devices contained within user terminals 370. Link 396,

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which provides a communication pathway between transaction data interface 394 and wagering and data management facility 380 may be any suitable type of communication link, for example, 30 RS-232 data lines. Although a telephone link may be used to provide two-way communications for transaction data (wagers placed, account information, etc.), any suitable communication pathway between user terminals 370 and wagering data management facility 380 may be used. For example, transaction data may be relayed to and from user terminals 370 via data and video link 376, video and data distribution system 368, and communication link 398.

In addition to the various elements described above, wagering system 366 may optionally include a subscriber management/customer service facility ("subscriber facility") 400, which is a computer-based facility for coordinating bank transfers and merchandise orders, handling paperwork required by tax and other regulations, and for supplying marketing information to third parties.

User terminals 370 are linked to subscriber facility 400 via communication lines 390, network 392, and communication line 402, which may be, for example, a leased telephone line. Subscriber facility 400 is linked to wagering data management facility 380 via communication line 404. Additional communication links are formed between subscriber facility 400 and racetrack 406, merchandise fulfillment house 408, production facility 410, bank facility 412, and third parties 414. These links may be formed using any

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suitable communications medium, such as telephone lines.

Subscriber facility 400 provides wagering system 366 with the capability to implement a variety of marketing and customer service related activities. For example, when the user desires to transfer bank account funds to his wagering account, a transfer authorization can be sent from user terminal 370 to subscriber facility 400 via communication line 402, where, after suitable processing, the transfer request is sent to bank facility 412. Bank facility 412 may be at the user's bank, or an affiliated bank connected to a banking network capable of authorizing the requested transfer. After bank facility 412 approves the requested transfer of funds, subscriber facility 400 transmits suitable fund transfer instructions to wagering data management facility 380.

Another useful feature that may be implemented using subscriber facility 400 is allowing the user to place merchandise orders from the home. Commercial advertising may be provided with wagering system 366. For example, video advertising clips may be displayed simultaneously with racing videos etc. If a menu option indicates that merchandise, such as racing memorabilia, promotional materials, collectibles, etc. is available, then following step 356 (FIG. 7) the user may interactively place an order for merchandise using wagering system 366. If desired, the user may place merchandise orders against funds located in the wagering account located at wagering data management facility 380 or at the user's account

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at bank facility 412. Alternatively, the user may place orders using a credit card.

Generally, the information necessary to consummate an on-line purchase of merchandise is well
5 known. This information is collected and disseminated to the appropriate parties by subscriber facility 400. For example, funds verification may be performed by communicating with wagering data management facility 380 or bank facility 412. Merchandise orders may be
10 placed with the racetrack 406 that offered the merchandise, or with merchandise fulfillment house 408.

Subscriber facility 400 may also be used to facilitate monitoring of the usage of user terminals 122. In order to improve the performance of wagering
15 system 366, it may be desirable to determine precisely how various users interact with the various menus etc. that are provided by user terminal 122. User terminals 122 can be programmed to monitor the way in which users interact with the menu structure implemented on user
20 terminals 122. For example, user terminals 122 can monitor how long each user spends at each screen, etc. Periodically, this information may be collected by subscriber facility 400 via communication line 402. This information can be used to improve the performance
25 of the menu structure implemented on user terminals 122, or may be used for marketing purposes (e.g., for direct marketing).

Production facility 410 may be used to satisfy regulatory paperwork requirements for tax and
30 other purposes. In addition, additional or replacement smart cards or user terminals 370 may be ordered from production facility 410.

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If desired, a user's personal preferences, such as wagering habits, betting preferences, merchandise orders, etc. may be supplied to third parties 414. The user's personal preference data may
5 be transmitted from user terminals 370 to wagering data management facility 380 during the placing of wagers. Later, wagering data management facility 380 transmits the personal preference data to subscriber facility 400, from where the data may be provided to, e.g.,
10 third parties 414.

A typical user terminal 370 is shown in FIG. 30. User terminal 370 has display and processing circuitry 416, which receives racing data and realtime video signals including videos from racing video source
15 374 via video input 418. The user enters commands with user input interface 420, which may be any suitable input interface, such as a remote control, keyboard, a conventional voice-actuated controller system, etc. Display and processing circuitry 416, which is
20 preferably microprocessor-based, coordinates the display of the racing data and videos on monitor 378 and the recording of videos on video recorder 424. User terminal 370 also has transaction data communication circuitry 422 (e.g., modem circuitry) for
25 communicating transaction data to wagering data management facility 380 (FIG. 29) and subscriber facility 400 (FIG. 29).

As is well known, set-top converters, video cassette recorders, audio/video receivers, and other
30 audio/video equipment may be interconnected in a variety of ways. For example, some audio/video components receive a full range of television channels

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on a radio frequency (RF) input line, and output a selected channel or other video signal on an RF channel such as channel 2, 3, or 4. An output provided on an RF channel must be processed by a television tuner
5 tuned to that channel.. Accordingly, this type of arrangement is suitable for audio/video equipment that is connected to an audio/video component having a television tuner (e.g., a conventional television set). Some audio/video equipment provides direct video and
10 audio signal outputs, which may be received by a monitor or other audio/video component that does not have a television tuner.

In accordance with the present invention, the racing videos and data received via input 418 are
15 typically received along with a complete range of television channels. In one suitable arrangement, the racing videos are provided on one or more dedicated channels and the racing data can be provided in an available region of bandwidth within these channels
20 (e.g., on a frequency modulated sideband). If the racing videos and data are provided over a digital video channel (e.g., as used with certain television satellite systems), the video signals occupy one portion of the digital signal and the racing data
25 another. Display and processing circuitry 416 contains circuitry for separating out the racing data from the video signals. Racing data are processed by display and processing circuitry 416 so that various menus of options and data may be displayed. Racing videos and
30 the menu displays can be provided to monitor 378 via RF output 426 or video and audio output 428.

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Because cable channels are often scrambled, display and processing circuitry 416 may also contain suitable circuitry for descrambling the cable (or satellite) television channels to which the user
5 subscribes. Alternatively, the user may attach a conventional set-top cable converter unit to their television, for use in conjunction with user terminal 370.

Further, various different connections are
10 possible with video recorder 424. If video recorder 424 is a conventional video cassette recorder, video output 430 may be an RF output or a video and audio output. If video recorder 424 only contains recording components and not a television tuner, then an RF
15 output would not be suitable. In that case, video output 430 is preferably a video/audio output rather than an RF output.

Commands from display and processing circuitry 416 are provided to video recorder 424 over
20 communication path 432. Communication path 432 may be a direct electrical connection to video recorder 424 or may use an infrared output circuit coupled to the infrared input of video recorder 424. If desired, video recorder 424 may be provided with the capability
25 of providing as an output video recorder status data regarding the state of video recorder 424 (e.g., tape inserted, play/record confirmed, index data on tape read/confirmed, etc.). The video recorder status data may be provided to display and processing circuitry 416
30 over communication path 432. Video recorder 424 may also be provided with a dedicated set-top converter box (such as shown connected to monitor 378 in FIG. 30).

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The set-top converter box may be provided downstream from the other components of user terminal 370 or may be provided as a completely separate input.

In the illustrative example shown in FIG. 30, set-top box 434 is provided midway between display and processing circuitry 416 and monitor 378. With this arrangement, line 436 is preferably an RF line. Another way in which television signals may be provided to monitor 378 is to provide additional RF or video/audio input 440 to monitor 378. If desired, descrambling on this line may be performed by set-top box 442. Switching between the desired audio/video and RF inputs to monitor 378 may be performed by circuitry within monitor 378, if desired.

If an audio/video receiver is also connected to the user's home system, further options are available. For example, the audio/video receiver (not shown) may be used to switch the various audio and video signals shown in FIG. 30. RF video signals may be switched using suitable RF switching equipment.

Thus, there are numerous suitable ways in which to arrange and interconnect various home audio/video components and user terminal 370. The particular arrangement chosen for user terminal 370 is not limited to any one setup. For example, monitor 378 may be a conventional television with an integral television tuner or may be any other suitable display monitor. Video recorder 424 may be a conventional video cassette recorder or may contain a status data output in addition to the components necessary to perform video recording and playback. One or more set-top boxes 442 or 434 may be provided. An audio/video

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receiver or RF signal switching and splitting circuitry may be connected to user terminal 370. Any of these components may be provided as a separate audio/video component or may be made integral with user terminal
5 370.

Wagering system 366 (FIG. 29) may be used to provide a variety of interactive wagering features. In accordance with one aspect of the present invention, when the user invokes wagering system 366 (e.g., by
10 entering an appropriate command via user input interface 420 (FIG. 30), the user is presented with an initial racetrack selection menu at step 444, as shown in FIG. 31. A suitable format for the racetrack selection menu is a list highlighted to show the
15 current selection. Another suitable format for the racetrack selection menu is map menu 446, shown in FIG. 35. With this approach, the various available racetracks are displayed on a map, e.g., of the United States. The currently selected racetrack (Hollywood
20 park in FIG. 35) is highlighted. Preferably, the user can select a racetrack using cursor keys to move up/down and right/left until the highlighted portion is positioned on the desired racetrack. The user may then press enter to select that track. As shown in FIG. 35,
25 map menu 446 preferably has go back button 447. If the user selects go back button 447, the user is returned to the previous menu. In addition to serving as a menu for track selections, a format similar to that of map menu 446 may be used to allow the user to make other
30 selections, such as when choosing a region of the country from which racing or other information (e.g., commercial advertising) is desired. Map menu 446 may

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be highlighted using any suitable technique, e.g., using an icon.

After a racetrack has been selected at step 444 of FIG. 31, the user decides whether to select a
5 wager amount or make a menu choice at step 448. The term "menu choice" used in connection with FIGS. 31-34 includes: "other track," "other race," "information," and "account." In accordance with the present invention, menu choices other track 450, other race
10 452, information 454, and account 456 are displayed on a screen 458 of mixed text and video, as shown in FIG. 36. Preferably, menu options appear at the bottom of screen 458. The currently selected racetrack 460 (Churchill Downs), race no. 462 (race 2) and time until
15 post 464 (nine minutes) appear in a banner 466 at the top of screen 458. The default for the currently selected race is the next race scheduled to be run at the selected racetrack. Current odds or other useful racing information items appear in box 468.

20 In addition, a realtime racing video 470 is simultaneously displayed in box 472. Preferably, racing video 470 is a simulcast from the selected racetrack corresponding to the next scheduled race. Typically, race previews are shown prior to each race.
25 These previews may contain views of the racetrack, fans, and runners, interviews with jockeys and trainers, and commentary. At post time, the video of the race itself is shown. If no racing videos are available at the selected track, box 472 can contain a
30 video clip of races at other tracks or can contain advertising information, etc.

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The arrangement of screen 458 allows the user to gauge how much time is left to place a wager by viewing the time until post 464, and viewing racing video 470. Current odds may be readily reviewed at box 468. With screen 458, the user can watch racing previews and race videos in realtime, while wagering on races interactively.

In step 448 of FIG. 31, the user selects a bet amount by moving highlighted portion 474 (FIG. 36) to the desired dollar amount (\$5 in FIG. 36). With any screen such as screen 458 (FIG. 36), the user can make a desired selection using input interface 420 (FIG. 30). For example, if user input interface 420 (FIG. 30) includes an infrared remote control and receiver, the user can press a "select" or "enter" key on the remote control to make a selection.

After selecting a bet amount at step 448 of FIG. 31, the user is passed to step 476, in which a bet type or a menu choice is selected. The bet type can be selected using a screen such as screen 478 in FIG. 37. As shown in FIG. 37, many of the display features of screen 458 (FIG. 36) remain unchanged as the user moves from step 448 (FIG. 31) to step 476 (FIG. 31). For example, banner 456 is unaffected, as are menu choices other track 450, other race 452, information 454, and account 456. Box 468 (which contains odds) and box 472 (which contains racing video 470) are also unchanged from step 448 (FIG. 31) to step 476 (FIG. 31). An advantage of providing screens that do not change excessively from step to step is that the user is less likely to be confused, and can find menu options more readily with this approach.

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The user selects a bet type such as a win bet by moving highlighted portion 480 to the win bet and selecting it, e.g, by entering the appropriate command with user input interface 420 (FIG. 30).

5 After selecting the bet type at step 476 of FIG. 31, the user is presented with a runner selection menu at step 482. A suitable screen format for the runner menu is given by screen 484 in FIG. 38. Having selected the number of runners either required or
10 allowed for the selected bet type, the system proceeds to step 486, at which the user is presented with the menu options place wager 488, another amount 490, and cancel 492 in addition to the menu choices 450, 452, 454, and 456 listed at the bottom of screen 494 in FIG.
15 39. Also displayed on screen 494 are wager number 496, wager amount 498, bet type 500 for the wager selected in steps 448, 476, and 482.

If the option place wager 488 is selected, wager transaction data corresponding to the selected
20 wager is transmitted from user terminal 370 (FIG. 29) to wagering data management facility 380 (FIG. 29) at step 510 (FIG. 31).

Following a brief screen in which the user is alerted that the wagering transaction is being sent
25 (e.g., with the message "sending wager"), a confirmatory message, such as message 504 is displayed on screen 506, as shown in FIG. 40. Preferably, as the simulcast of the selected race approaches post time, the screen format assumes the larger, nearly full-
30 screen size of screen 506. The racing video is shown in the central portion of screen 506. A relatively

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small portion 508 of the screen 506 is used to display the selected bet amount, bet type, and runner(s).

If the user selects another amount 490 (FIG. 39) at step 486 of FIG. 31, then the user can select a new bet amount at step 512 (using a menu such as screen 458 of FIG. 36). Selecting cancel 492 (FIG. 39) returns the user to step 448.

The results of selecting one of the "menu choices" (other track, other race, information, or account) from step 448, 476, 482, or 486, are shown in FIG. 32. If "other track" is selected at step 514, then the user is presented with the menu choices "track" and "menu choice" at step 516. A suitable menu format for selecting a new track is a format such as used for screen 518 in FIG. 41. If a "menu choice" is made, the user returns to step 514.

If "account" is selected by the user at step 514, the user is presented with a menu such as screen 520 of FIG. 42, which prompts the user to enter his personal identification code. The user enters the personal identification code at step 522 (FIG. 32) with user input interface 420 (FIG. 30). During the process of entering the personal identification code, boxes 521 change color to indicate when each code element (e.g. digit) is entered. After the personal identification code has been entered, screen 524 is displayed, as shown in FIG. 43. In screen 524, the user's account balance 526 is shown (as obtained, e.g., from the wagering data management facility 380 of FIG. 29). Also displayed is a menu of fund transfer amounts 528. At step 530 (FIG. 32) the user selects the desired amount of funds to transfer from bank facility 412

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(FIG. 29) to his account at wagering data management facility 380 (FIG. 29) by highlighting menu option transfer funds 532 (FIG. 43). Following this selection, a confirmatory message, such as "bank
5 transfer" is displayed. Account balance 526 is updated to reflect the new balance, once the transfer is complete.

If the menu option "information" is selected at step 514 in FIG. 32, the user is given the
10 opportunity to select from the menu options "racing information," "other," and "menu choice" at step 534. If "racing information" is selected, then the user is presented with a list of menu options at step 536. A suitable menu format for displaying the step 536 menu
15 options is screen 538 (FIG. 44), which allows the user to highlight the desired menu option. Four options are listed in the information category portion of screen 538 (FIG. 44). To see additional listings, the user
cursors down or up to scroll or page through the
20 listing.

If the option "late changes/overweights" is selected at step 536 of FIG. 32, then a list of late changes and overweights is displayed at step 538. Scratches are displayed at step 540, when "scratches"
25 is the selected menu option. At step 542, weather information is displayed when that option is selected at step 536. Racing highlights are displayed at step 544 if "highlights" is selected at step 536. Odds are displayed at step 546 if the menu option selected at
30 step 536 is "odds." In addition, scratches are preferably noted on the screens that contain runner numbers (e.g., by the notation "scratch" adjacent to

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the appropriate runner number). Odds may be displayed using the traditional fractional format (e.g., 9/5) or may be displayed using a percentile format (e.g., 5.0%), as shown in FIG. 45.

5 Another category of racing information that may be viewed is handicapping information. To view handicapping information, the user selects "handicapping" at step 536. Making the selection "handicapping" moves the user to step 548 in FIG. 33,
10 at which the user chooses between viewing handicapping data and creating a personal power rating. If the user selects "view handicapping data," various handicapping data screens are displayed, showing, for example, snapshot power ratings, speed/class ratings, pace
15 ratings, and jockey/trainer information at step 550.

 If "personal power rating" is selected at step 548 (FIG. 33), the user is presented with an opportunity to create his own personal power rating, by entering weights for various handicapping categories.
20 As shown in FIG. 46, a menu of options is preferably displayed using a screen format such as used for screen 552. Handicapping categories include, but are not limited to, speed 554, breeding 556, in-the-money 558, and track condition 560. The current odds (e.g., the
25 win odds) for each runner may also be included as a handicapping category, if desired. Weights are entered by moving a highlighted portion of screen 552 to the desired weight and selecting the highlighted weight with user input interface 420 (FIG. 30). The desired
30 weight for the speed category is selected at step 562 (FIG. 33). The weights for breeding, in-the-money and track condition are entered at steps 564, 566, and 568

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(FIG. 33), respectively. The weights chosen on screen 552 of FIG. 46 are: speed 4, breeding 2, in-the-money 5, and track condition 3.

After all weights have been entered, the
5 personal power ratings are displayed at step 570
(FIG. 33). Any suitable display format may be used to
display the ratings. For example, the ratings may be
displayed numerically, using a bar graph, a pie chart
or other graphical display. As shown in FIG. 47, one
10 suitable display is horizontal graph 572. Runners are
listed numerically on the left side of graph 572. The
corresponding results of the personal power rating
selections made in steps 562, 564, 566, and 568 (FIG.
33) are shown numerically on the right side of graph
15 572. Also shown -- in the center of graph 572 -- are
runner icons 574, each horizontally located at a
distance from the left edge of graph 572 that is
representative of the numerical personal power rating
result. After the personal power ratings are displayed
20 at step 570, the system returns to step 548 (when
instructed by the user).

User terminal 370 (FIG. 30) performs the
calculations necessary to determine the personal power
ratings based on the racing data received from racing
25 data interface 372 (FIG. 29) and the selected personal
power rating weights. Any suitable method of
calculating the power ratings may be used, such as
multiplying the weights by a numerical value
representative of the runner's strength in the
30 respective categories. For example, in the speed
category, the weight of 4 selected in FIG. 46 could be
multiplied by the runner's percentile ranking in

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average speed in its most recent races. Alternatively, a predetermined speed power rating could be used. Although screen 552 (FIG. 46) depicts four personal power rating categories, any number of categories may
5 be used, limited only by the amount of statistical racing data available from racing data interface 372 (FIG. 29).

Returning to FIG. 32, if the menu option "other" is selected at step 534, then the user is
10 presented with menu options "racing simulcast schedule," "miscellaneous advertising," "help," and "questionnaire" at step 576. A schedule of which races are being video-simulcast is displayed if "racing simulcast schedule" is selected. Preferably, a user
15 can select from the displayed list of simulcast races. When a particular race is selected from those displayed at step 576, user terminal 122 (FIG. 29) returns the user to step 448 at FIG. 31, where the user is provided with an opportunity to place a wager on the selected
20 race.

If "miscellaneous advertising" is selected at step 576, advertising information is displayed. Help information is displayed if "help" is selected. Because user terminal 370 (FIG. 30) is capable of
25 handling video signals, the advertising information that is provided at step 576 can contain video clips in addition to text information. For example, racing data interface 372 (FIG. 29), racing video source 374 (FIG. 29) or other suitable advertising source may transmit
30 compressed video clips to user terminal 370 of FIG. 30, where they are stored on local mass storage device 578 (FIG. 3) (e.g., a hard disk drive). When advertising,

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help, or any other information is selected that would benefit from a video presentation, the compressed video signal stored on local mass storage device 578 (FIG. 30) is played back using display and processing circuitry 416 (FIG. 30).

Another menu option that may be selected at step 576 (FIG. 32) is "questionnaire." When this selection is made, user terminals 122 provide an interactive questionnaire on the monitor 378, to which the user may respond, if interested. A typical use for such questionnaires would be to facilitate user feedback. For example, questionnaires may be provided that ask the user which particular services of wagering system 366 (FIG. 1) are of greatest interest, etc. When the questionnaire is completed, the results of the questionnaires may be transmitted to subscriber facility 400 (FIG. 29) using transaction data communications circuitry 422 (FIG. 30.) and communication line 402 (FIG. 29).

As described above, a "menu choice" option at step 514 (FIG. 32) is "other track." The selection of another racetrack is illustrated in FIG. 48, in which the racetrack Hollywood Park has been selected. When a new racetrack is selected, the previously selected racetrack 460 (e.g., Churchill Downs in FIG. 36) is replaced with the currently selected racetrack 580. In addition, the currently selected race 582 is automatically updated to reflect the next currently scheduled race to be run at the currently selected racetrack. As shown in FIG. 48, the next race scheduled at Hollywood Park is race 3. The time until post 584 is also automatically updated upon entering

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the screen 586 to correspond to the next currently scheduled race. Also automatically updated are odds 590 and racing video 592.

If it is desired to change to another race
5 from a screen such as screen 586, which displays the menu choices "other track," "other race," "information," and "account," the user highlights portion 594 of screen 586 corresponding to menu option "other race" at step 514 (FIG. 32). Selecting "other
10 race" at step 514 (FIG. 32) takes the user to step 596 in FIG. 34. A suitable screen for displaying the menu options available at step 596 is screen 598, shown in FIG. 49.

As shown in FIG. 49, a number of viewing
15 options are presented for each race, such as "results," "alert," and "tape/VCR." For races that have been run, the appropriate option is "results," which allows a user to watch an earlier race. If the user selects "results" at step 596 of FIG. 34, the user is presented
20 with the menu option "watch the race" at step 600. A suitable screen for presenting this option to the user is screen 602 of FIG. 50. If the user decides to watch the race and makes the menu selection "watch the race" at step 600 (FIG. 34), a video of the race is displayed
25 at step 602 (FIG. 34) and, if desired, the user may be billed a transaction fee for making this selection. Transaction fees may be levied using any suitable technique. For example, user terminal 370 can maintain a running log of transaction fees charged the user for
30 making selections such as "watch the race," etc. Periodically, this log may be transferred to subscriber facility 400, which compiles a bill for the user, or

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which debits the user's account (at bank 412 or
wagering data management facility 380). The user may
also be charged transaction fees for each wager placed
at wagering data management facility 380. This type of
5 transaction fee is preferably levied at the time at
which the wager is placed, e.g., by debiting the user's
account (at wagering data management facility 380 or
bank 412) by the transaction fee in addition to the
wager amount.

10 In order to allow the user to watch the
results of previously run races, video clips of the
races must be stored in a suitable facility and
delivered to the user on demand. A variety of
arrangements for accomplishing this task are possible.
15 For example, as shown in FIG. 29, a user may place an
order for a race video from user terminal 370 via
communication line 390. The order is received by
transaction data interface 394, which transmits the
order and any necessary account verification
20 information to wagering data management system 380.
Race video order information can be transmitted to
video and data distribution system 368 from wagering
data management facility 380 via communication link
398. If it is desired to impose a charge for ordering
25 videos of race results, wagering data management system
380 can debit the user's account accordingly when the
order is received.

Video and data distribution system 368 can
contain a high capacity storage medium, suitable for
30 recording races as they are received from racing video
source 374. In order to minimize the amount of storage
necessary in video and data distribution system, it may

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be desired to record only the video of the race, and not any race previews. It may also be desired to digitally compress the videos.

Various approaches may be used for delivering
5 the race videos that are stored at video and data distribution system 368 to user terminal 370. For example, the sideband or other portion of the bandwidth used by the wagering system 366 to deliver racing data to user terminals 370 may be sufficiently large to
10 support the delivery of compressed video clips in addition to the racing data. If a compressed video clip contains encoded information, only authorized users who selected to watch the race results video will receive that video clip. A similar approach is to send
15 the requested video information over an available video channel to authorized users. A pay-per-view cable channel is also a suitable pathway for providing racing videos to user terminal 370.

Regardless of how user terminal 370 receives
20 the requested prerecorded race video clip, at step 602 (FIG. 34), user terminal 370 displays the video on monitor 378. If necessary, user terminal 370 decompresses any compressed video information.

Different options are available for races
25 that have not yet been run. For example, the user can select "alert" at step 596 (FIG. 34) to be alerted (e.g., by an audible tone and/or a visual prompt on the display screen) that the race is about to be run. If alert is selected at step 596 (FIG. 34), user terminal
30 370 (FIG. 30) triggers an alarm and displays the race video when appropriate at step 604 (FIG. 34). The user can also select "tape/VCR" at step 596 (FIG. 34). If

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"tape/VCR" is selected at step 596 (FIG. 34), at step 606 (FIG. 34) user terminal 370 (FIG. 30) programs video recorder 424 (FIG. 30) with the appropriate recording information or actuates video recorder 424 (FIG. 30) at the time of the selected race. Thus, selecting "tape/VCR" allows the selected race to be recorded. When desired, the user can review the race videos recorded by video recorder 424 (FIG. 30). If video recorder 424 (FIG. 30) is capable of transmitting data such as indexing data to user terminal 370 (FIG. 30), user terminal 370 (FIG. 30) can coordinate the playback of race videos.

Any suitable display can be used to present the user with the menu options of step 596 (FIG. 34). In the example of screen 598, the options available for each race appear in bold type, whereas unavailable options appear only faintly. For example, race 1 and race 2 have already been run. Accordingly, results 608 and 610 appear in bold type. Races 3 and 4 have not yet been run so alerts 612 and 614 and tape/VCR 616 and 618 appear in bold.

One skilled in the art will appreciate that the present invention may be practiced by other than the described embodiments, which are presented for purposes of illustration and not of limitation, and the present invention is limited only by the claims that follow.

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WHAT IS CLAIMED IS:

1. An interactive wagering system for off-track wagering on races, comprising:

a data facility that receives racing data and provides said racing data with video signals;

a user terminal comprising:

input means for receiving said video signals and said racing data,

means for separating said racing data from said video signals,

a monitor,

display and control circuitry for displaying said racing data on said monitor,

user input means for receiving wager data, and

transaction data communication circuitry that transmits said wager data; and

a wagering facility for maintaining a wagering account for said user, wherein said wagering facility:

receives said wager data from said transaction data communication circuitry corresponding to a wager to be placed by a user;

adjusts said wagering account to reflect the results of said wager; and

transmits said racing data to said data facility.

2. The system of claim 1 wherein said user terminal further comprises means for allowing the user to interactively control the display of said racing data.

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3. The system of claim 1 wherein said transaction data communication circuitry comprises means for transmitting and receiving transaction data over a telephone network.

4. The system of claim 1 wherein said data facility includes a cable headend facility for receiving said racing data and providing said racing data to said user terminal.

5. The system of claim 4 wherein said cable headend facility includes means for transmitting said racing data to said user terminal on a sideband.

6. The system of claim 1 wherein said wagering facility includes a totalisator for receiving said wager data.

7. The system of claim 6 wherein said totalisator further comprises means for levying a transaction fee when the user initiates a predetermined transaction.

8. The system of claim 6 wherein said totalisator further comprises:

means for receiving requests from said user terminal for account balance information; and
means for providing said account balance information to said user terminal.

9. The system of claim 8 wherein said totalisator further comprises:

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means for receiving a personal identification code; and

means for verifying said personal identification code matches an authorized code.

10. The system of claim 1 wherein said data facility includes a data concentrator for receiving racing data from said wagering facility and from at least one supplemental source of racing data.

11. The system of claim 1 wherein said monitor is a television set having a tuner for tuning to a desired television channel.

12. The system of claim 1 wherein said user terminal further comprises:

means for receiving a personal identification code input by the user; and

a smart card interface for receiving smart cards, the user terminal verifying that the user is authorized to place wagers based on comparison of said personal identification code to a prestored personal identification code on said smart card.

13. The system of claim 1 wherein said user terminal further comprises:

means for presenting on said monitor a menu option of selecting a racetrack for which it is desired to place wagers;

means for presenting on said monitor a menu option of selecting a race for which it is desired to place wagers;

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means for presenting on said monitor a menu option of selecting a wager amount;

means for presenting on said monitor a menu option of selecting a wager type; and

means for presenting on said monitor a menu option of selecting runners.

14. The system of claim 1 wherein said user terminal further comprises means for presenting news and information on said monitor.

15. The system of claim 14 wherein said means for presenting news and information further comprises means for presenting a racing simulcast schedule on said monitor.

16. The system of claim 1 wherein said user terminal further comprises means for presenting racing odds on said monitor.

17. The system of claim 1 wherein said user terminal further comprises means for presenting racing pools on said monitor.

18. The system of claim 1 wherein said user terminal further comprises means for presenting racing payoffs on said monitor.

19. The system of claim 1 wherein said user terminal further comprises means for presenting odds for exacta wagers on said monitor.

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20. The system of claim 1 wherein said user terminal further comprises means for presenting odds in a percentile format.

21. The system of claim 1 wherein said user terminal further comprises means for presenting handicapping data on said monitor.

22. The system of claim 21 wherein said handicapping information comprises handicapping information selected from the group consisting of: snapshot power ratings, speed-class ratings, pace ratings, and jockey/trainer information.

23. The system of claim 1 wherein said user terminal further comprises means for presenting race results on said monitor.

24. The system of claim 1 wherein said user terminal further comprises means for presenting weather conditions on said monitor.

25. The system of claim 1 wherein said user terminal further comprises means for presenting a queue of wagers to be placed on said monitor.

26. The system of claim 1 wherein said user terminal further comprises means for simultaneously presenting on said monitor both racing odds and monetary wager amounts from which to choose.

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27. The system of claim 1 further comprising means for limiting the amount of said racing data that is transmitted to said user terminal such that only selected racetracks, races, wager types, and wager amounts can be presented on said monitor.

28. The system of claim 1 further comprising means for transmitting a predetermined authorization code with a predetermined set of said racing data so that only those user terminals that have an authorization code that matches said predetermined authorization code may use said predetermined set of said racing data.

29. The system of claim 1 further comprising means for monitoring the usage of said user terminal.

30. The system of claim 1 further comprising means for allowing selection of a desired racetrack from a map menu.

31. The system of claim 1 wherein said user input means comprises a voice-actuated controller.

32. The system of claim 1 further comprising means for allowing said user to interactively place an order for merchandise.

33. The system of claim 1 further comprising:

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means for presenting a plurality of menu layers on said monitor, said user moving through said menu layers by making menu selections; and

means for presenting a hot button on said monitor to allow said user to move through said menu layers more quickly than would be possible without said hot button.

34. The system of claim 1 further comprising the steps of:

receiving a smart card with a smart card interface connected to said user terminal; and

storing wagering transaction data on said smart card.

35. A method of interactive wagering on races using an off-track wagering system, comprising the steps of:

transmitting racing data from a wagering facility;

receiving said racing data with a data facility;

providing said racing data and video signals with said data facility;

receiving said video signals and said racing data with a user terminal;

separating said racing data from said video signals with said user terminal;

displaying said racing data on a monitor with said user terminal;

receiving wager data corresponding to wagers to be placed by a user with said user terminal;

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maintaining a wagering account for the user at said wagering facility;

transmitting said wager data to said wagering facility;

receiving said wager data from said transaction data communication circuitry at said wagering facility; and

adjusting said wagering account after a race to reflect the results of said race.

36. The method of claim 35 further comprising the step of allowing the user to interactively control the display of said racing data.

37. The method of claim 35 further comprising the steps of:

transmitting transaction data over a telephone network; and

receiving transaction data over a telephone network.

38. The method of claim 35 further comprising the steps of:

receiving said racing data with a cable headend facility; and

providing said racing data to said user terminal with a cable headend facility.

39. The method of claim 38 further comprising the step of transmitting said racing data to said user terminal on a sideband.

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40. The method of claim 35 further comprising the step of receiving said wager data with a totalisator.

41. The method of claim 35 further comprising the step of levying a transaction fee when the user initiates a predetermined transaction.

42. The method of claim 40 further comprising the steps of:

receiving requests from said user terminal for account balance information; and
providing said account balance information to said user terminal.

43. The method of claim 40 further comprising the steps of:

receiving a personal identification code with said totalisator; and
verifying that said personal identification code matches an authorized code.

44. The method of claim 35 further comprising the step of receiving racing data from said wagering facility and from at least one supplemental source of racing data with a data concentrator.

45. The method of claim 35 further comprising the step of using as said monitor a television set having a tuner for tuning to a desired television channel.

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46. The method of claim 35 further comprising the steps of:

- receiving with said user terminal a personal identification code input by the user;
- receiving a smart card with a smart card interface connected to said user terminal; and
- verifying that the user is authorized to place wagers based on comparison of said personal identification code to a prestored personal identification code on said smart card.

47. The method of claim 35 further comprising the steps of:

- receiving a smart card with a smart card interface connected to said user terminal; and
- storing wagering transaction data on said smart card.

48. The method of claim 35 further comprising the step of:

- selecting a racetrack for which it is desired to place wagers;
- selecting a wager amount; selecting a race for which it is desired to place wagers;
- selecting a wager type; and
- selecting runners.

49. The method of claim 35 further comprising the step of presenting news and information on said monitor.

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50. The method of claim 35 further comprising the step of presenting a racing simulcast schedule on said monitor.

51. The method of claim 35 further comprising the step of presenting racing odds on said monitor.

52. The method of claim 35 further comprising the step of presenting racing pools on said monitor.

53. The method of claim 35 further comprising the step of presenting racing payoffs on said monitor.

54. The method of claim 35 further comprising the step of presenting odds for exacta wagers.

55. The method of claim 35 further comprising the step of presenting odds in a percentile format.

56. The method of claim 35 further comprising the step of presenting handicapping data on said monitor.

57. The method of claim 56 further comprising the step of presenting handicapping data on said monitor that includes handicapping information selected from the group consisting of: snapshot power

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ratings, speed-class ratings, pace ratings, and jockey/trainer information.

58. The method of claim 35 further comprising the step of presenting race results on said monitor.

59. The method of claim 35 further comprising the step of presenting weather conditions on said monitor.

60. The method of claim 35 further comprising the step of presenting on said monitor a queue of wagers to be placed.

61. The method of claim 35 further comprising the step of simultaneously presenting on said monitor racing odds and monetary wager amounts from which to choose.

62. The method of claim 35 further comprising the step of limiting the amount of said racing data that is transmitted to said user terminal such that only selected racetracks, races, wager types, and wager amounts can be presented on said monitor.

63. The method of claim 35 further comprising the step of transmitting a predetermined authorization code with a predetermined set of said racing data so that only those user terminals that have an authorization code that matches said predetermined

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authorization code may use said predetermined set of said racing data.

64. The method of claim 35 further comprising the step of monitoring the usage of said user terminal.

65. The method of claim 35 wherein said step of receiving wager data further comprises the step of selecting a desired racetrack from a map menu.

66. The method of claim 35 wherein said step of receiving wager data further comprises the step of receiving wager data with a voice-actuated controller.

67. The method of claim 35 further comprising the step of allowing said user to interactively place an order for merchandise.

68. The method of claim 35 further comprising the steps of:

presenting a plurality of menu layers on said monitor;

allowing said user to move through said menu layers by making menu selections; and

presenting a hot button on said monitor so that said user can move through said menu layers more quickly than would be possible without said hot button.

69. An interactive wagering system for off-track wagering on races, comprising:

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a wagering data management facility for providing racing data and for maintaining wagering accounts for users;

a racing data interface that receives racing data from said wagering data management facility;

a source of racing videos;

a video and data distribution system for receiving said racing data from said racing data interface and said racing videos from said source of racing videos, said video and data distribution system providing both said racing data and said racing videos;

a user terminal for receiving said racing data and said racing videos; and

a monitor on which said user terminal simultaneously displays said racing data and said racing videos.

70. The system of claim 69 wherein said user terminal comprises:

display and processing circuitry for displaying said racing data on said monitor;

user input means for receiving wager data corresponding to wagers to be placed by a user;

transaction data communication circuitry that transmits said wager data, wherein said wagering data management facility:

receives said wager data from said transaction data communication circuitry; and

adjusts said wagering account after a race to reflect the results of said race.

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71. The system of claim 69 further comprising means for levying a transaction fee when the user initiates a predetermined transaction.

72. The system of claim 69 wherein said transaction data communication circuitry comprises means for transmitting and receiving transaction data over a telephone network.

73. The system of claim 69 wherein said wagering data management facility includes a cable headend facility for receiving said racing data and providing said racing data to said user terminal.

74. The system of claim 73 wherein said cable headend facility includes means for transmitting said racing data to said user terminal on a sideband.

75. The system of claim 69 wherein said wagering data management facility includes a totalisator for receiving said wager data.

76. The system of claim 75 wherein said totalisator further comprises:

means for receiving requests from said user terminal for account balance information; and
means for providing said account balance information to said user terminal.

77. The system of claim 69 wherein said racing data interface further comprises means for

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receiving racing data from at least one supplemental source of racing data.

78. The system of claim 69 wherein said monitor is a television set having a tuner for tuning to a desired television channel.

79. The system of claim 69 wherein said user terminal further comprises:

means for presenting on said monitor a menu option of selecting a racetrack for which it is desired to place wagers;

means for presenting on said monitor a menu option of selecting a race for which it is desired to place wagers;

means for presenting on said monitor a menu option of selecting a wager amount;

means for presenting on said monitor a menu option of selecting a wager type; and

means for presenting on said monitor a menu option of selecting runners.

80. The system of claim 69 wherein said user terminal further comprises means for presenting a racing simulcast schedule on said monitor.

81. The system of claim 69 wherein said user terminal further comprises means for presenting advertising on said monitor.

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82. The system of claim 69 wherein said user terminal further comprises means for presenting an interactive questionnaire on said monitor.

83. The system of claim 69 wherein said user terminal further comprises means for simultaneously displaying on said monitor both racing data and advertising video clips.

84. The system of claim 69 wherein said user terminal further comprises means for presenting racing odds, pools, predicted payoffs, and actual payoffs on said monitor.

85. The system of claim 69 wherein said user terminal further comprises means for presenting odds for exacta wagers on said monitor.

86. The system of claim 69 wherein said user terminal further comprises means for presenting odds for trifecta wagers on said monitor.

87. The system of claim 69 wherein said user terminal further comprises means for presenting odds for pick-n wagers on said monitor.

88. The system of claim 69 wherein said user terminal further comprises means for presenting late changes, overweights, and scratches on said monitor.

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89. The system of claim 69 further comprising means for periodically automatically updating said racing data on said monitor.

90. The system of claim 69 wherein said user terminal further comprises:

means for accepting personal power rating weights for each of a plurality of handicapping categories for a plurality of runners;

means for calculating a personal power rating for each runner based on said racing data and said personal power rating weights; and

means for displaying said personal power ratings on said monitor.

91. The system of claim 69 wherein said user terminal further comprises means for presenting race results on said monitor.

92. The system of claim 69 wherein said means for presenting race results further comprises means for displaying racing videos on said monitor.

93. The system of claim 69 wherein said terminal further comprises:

means for setting an alert function for a predetermined race for which it is desired to watch a racing video;

means for triggering an alarm when said predetermined race is about to be run; and

means for displaying said racing video of said predetermined race when said race is run.

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94. The system of claim 69 wherein said user terminal further comprises:

a video recorder; and
means for setting said video recorder to record a predetermined one of said racing videos.

95. The system of claim 69 further comprising:

a bank facility at which bank accounts are maintained; and

means for communicating to said bank facility requests from said user terminals to transfer funds from at least one of said bank accounts at said bank facility to at least one of said wagering accounts at said wagering data management facility.

96. The system of claim 69 wherein said user terminal further comprises means for simultaneously displaying on said monitor both racing odds for a predetermined race and a corresponding racing video for said predetermined race.

97. The system of claim 69 wherein said user terminal further comprises means for simultaneously displaying on said monitor both available monetary wager amounts for a predetermined race and a corresponding racing video for said predetermined race.

98. The system of claim 69 wherein said user terminal further comprises means for simultaneously displaying on said monitor both available wager types

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for a predetermined race and a corresponding racing video for said predetermined race.

99. The system of claim 69 wherein said user terminal further comprises means for simultaneously displaying on said monitor both runners to be selected for wagering on a predetermined race and a corresponding racing video for said predetermined race.

100. A method of interactive wagering on races using an off-track wagering system, comprising the steps of:

- providing racing data with a wagering data management facility;

- maintaining a wagering account for a user with said wagering data management facility;

- receiving racing data from said wagering data management facility with a racing data interface;

- supplying racing videos;

- receiving both said racing data from said racing data interface and said racing videos with a video and data distribution system;

- providing with said video and data distribution system both said racing data and said racing videos;

- receiving said racing data and said racing videos with a user terminal; and

- simultaneously displaying said racing data and said racing videos on a monitor with said user terminal.

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101. The method of claim 100 further comprising the steps of:

displaying said racing data on said monitor with said user terminal;

receiving wager data with said user terminal corresponding to wagers to be placed by said user;

transmitting said wager data from said user terminal to said wagering data management facility;

receiving said wager data from said user terminal with said wagering data management facility; and

adjusting said wagering account after a race to reflect the results of said race.

102. The method of claim 100 further comprising the step of levying a transaction fee when the user initiates a predetermined transaction.

103. The method of claim 100 further comprising the steps of transmitting and receiving transaction data over a telephone network.

104. The method of claim 100 further comprising the steps of:

receiving said racing data and said race videos with a cable headend facility; and

providing said racing data and said racing videos to said user terminal.

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105. The method of claim 104 further comprising the step of transmitting said racing data to said user terminal on a sideband.

106. The method of claim 100 further comprising the step of receiving said wager data with a totalisator.

107. The method of claim 106 further comprising the steps of:

receiving requests from said user terminal for account balance information; and
providing said account balance information to said user terminal.

108. The method of claim 100 further comprising the step of receiving racing data with said racing data interface from at least one supplemental source of racing data.

109. The method of claim 100 further comprising the step of using as said monitor a television set having a tuner for tuning to a desired television channel.

110. The method of claim 100 further comprising the steps of:

presenting on said monitor a menu option of selecting a racetrack for which it is desired to place wagers;

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presenting on said monitor a menu option of selecting a race for which it is desired to place wagers;

presenting on said monitor a menu option of selecting a wager amount;

presenting on said monitor a menu option of selecting a wager type; and

presenting on said monitor a menu option of selecting runners.

111. The method of claim 100 further comprising the step of presenting a racing simulcast schedule on said monitor.

112. The method of claim 100 further comprising the step of presenting advertising on said monitor.

113. The method of claim 100 further comprising the step of presenting an interactive questionnaire on said monitor.

114. The method of claim 100 further comprising the step of simultaneously displaying on said monitor both racing data and advertising video clips.

115. The method of claim 100 further comprising the step of presenting racing odds, pools, predicted payoffs, and actual payoffs on said monitor.

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116. The method of claim 100 further comprising the step of presenting odds for exacta wagers on said monitor.

117. The method of claim 100 further comprising the step of presenting odds for trifecta wagers on said monitor.

118. The method of claim 100 further comprising the step of presenting odds for pick-n wagers on said monitor.

119. The method of claim 100 further comprising the step of presenting late changes, overweights, and scratches on said monitor.

120. The method of claim 100 further comprising the step of periodically automatically updating said racing data on said monitor.

121. The method of claim 100 further comprising the steps of:

accepting personal power rating weights for each of a plurality of handicapping categories for a plurality of runners;

calculating a personal power rating for each runner based on said racing data and said personal power rating weights; and

displaying said personal power ratings on said monitor.

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122. The method of claim 100 further comprising the step of presenting race results on said monitor.

123. The method of claim 122 wherein the step of presenting race results further comprises the step of displaying racing videos on said monitor.

124. The method of claim 100 further comprising the steps of:

 setting an alert function for a predetermined race for which it is desired to watch a racing video;

 triggering an alarm when said predetermined race is about to be run; and

 displaying said video of said predetermined race when said race is run.

125. The method of claim 100 further comprising the step of setting a video recorder to record a predetermined one of said racing videos.

126. The method of claim 100 further comprising the step of communicating to a bank facility at which bank accounts are maintained requests from said user terminals to transfer funds from at least one of said bank accounts at said bank facility to at least one of said wagering accounts at said wagering data management facility.

127. The method of claim 100 further comprising the step of simultaneously displaying on

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said monitor both racing odds for a predetermined race and a corresponding racing video for said predetermined race.

128. The method of claim 100 further comprising the step of simultaneously displaying on said monitor both available monetary wager amounts for a predetermined race and a corresponding racing video for said predetermined race.

129. The method of claim 100 further comprising the step of simultaneously displaying on said monitor both available wager types for a predetermined race and a corresponding racing video for said predetermined race.

130. The method of claim 100 further comprising the step of simultaneously displaying on said monitor both runners to be selected for wagering on a predetermined race and a corresponding racing video for said predetermined race.

131. An off-track user terminal for operation with an interactive racing wagering system having a wagering facility at which a wagering account of a user is maintained, said wagering facility providing racing data to a data facility that provides said user terminal with said racing data and video signals, said wagering facility receiving wager data from said user terminal corresponding to a wager, said wagering facility adjusting said wagering account after a race

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to reflect the results of said race based on said wager, said user terminal comprising:

input means for receiving said video signals and said racing data;

means for separating said racing data from said video signals;

a monitor;

display and control circuitry for displaying said racing data on said monitor;

user input means for receiving said wager data; and

transaction data communication circuitry that transmits said wager data to said data facility.

132. An off-track user terminal for operation with an interactive racing wagering system having a wagering data management facility for providing racing data and for maintaining a wagering account for a user, a racing data interface that receives racing data from said wagering data management facility, a source of racing videos, a video and data distribution system for receiving said racing data from said racing data interface and said racing videos from said source of racing videos, said video and data distribution system providing both said racing data and said racing videos, and a monitor, said user terminal comprising:

means for receiving said racing data and said racing videos;

means for simultaneously displaying said racing data and said racing videos on said monitor;

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user input means for receiving wager data corresponding to wagers to be placed by a user; and

transaction data communication circuitry that transmits said wager data to said wagering data management facility.

1 / 50

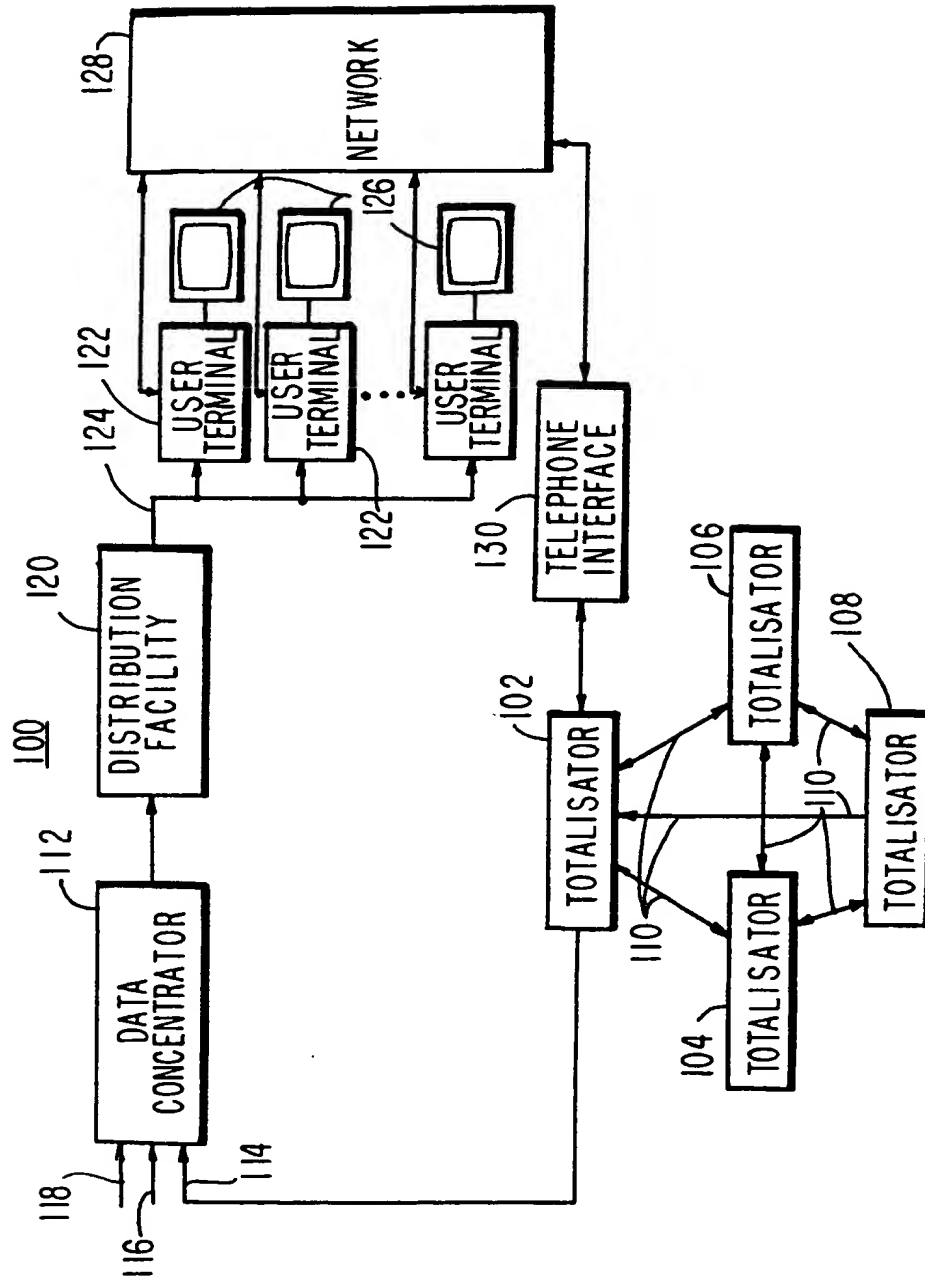


FIG. 1

2/50

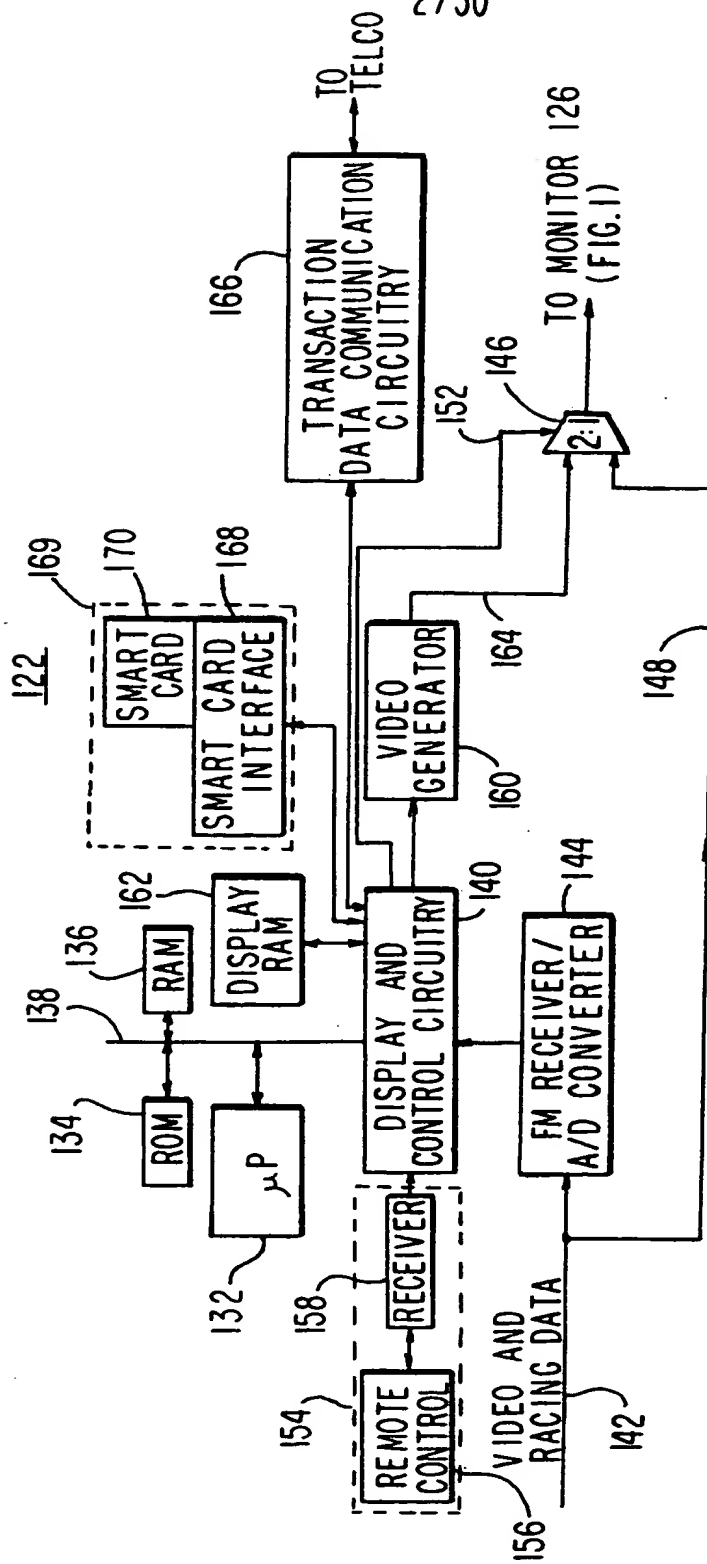
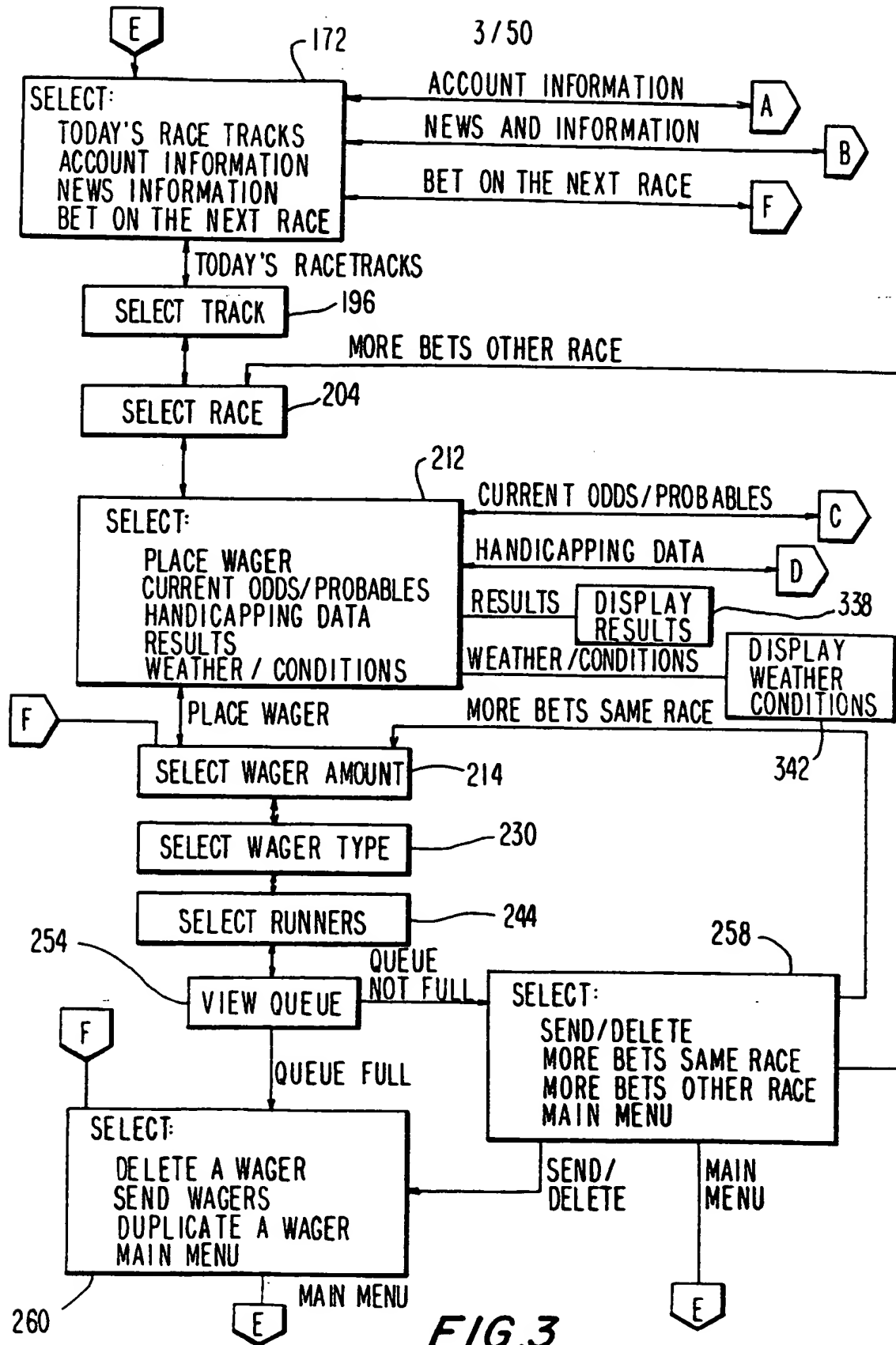


FIG. 2



4/50

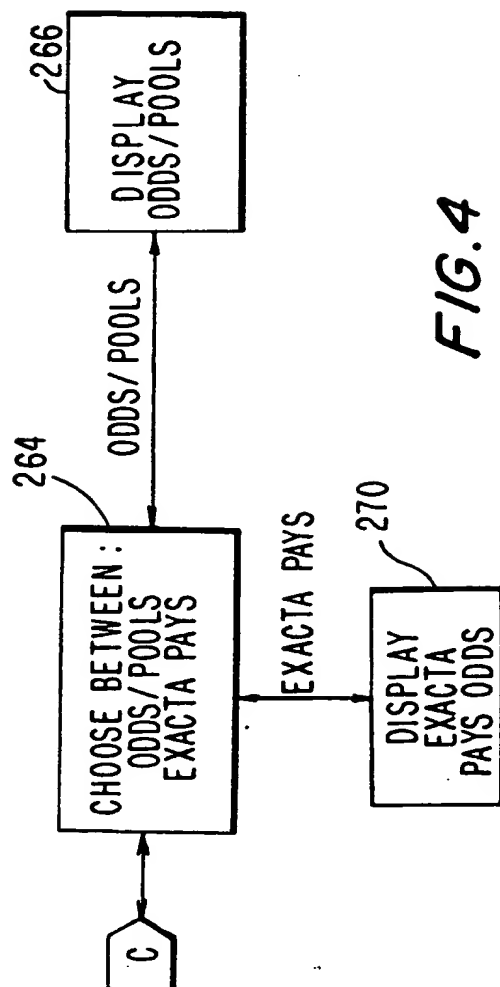


FIG. 4

5 / 50

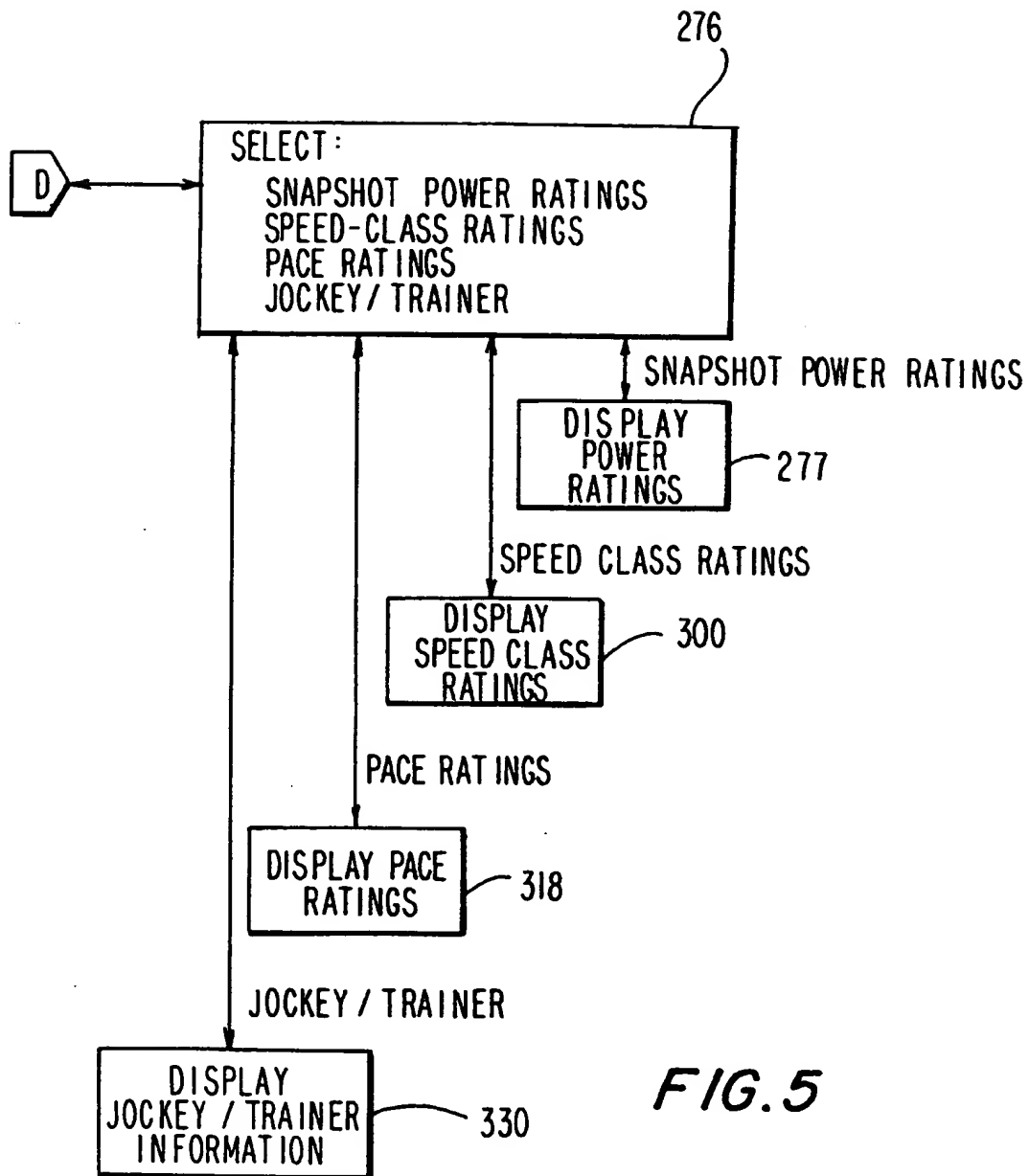


FIG. 5

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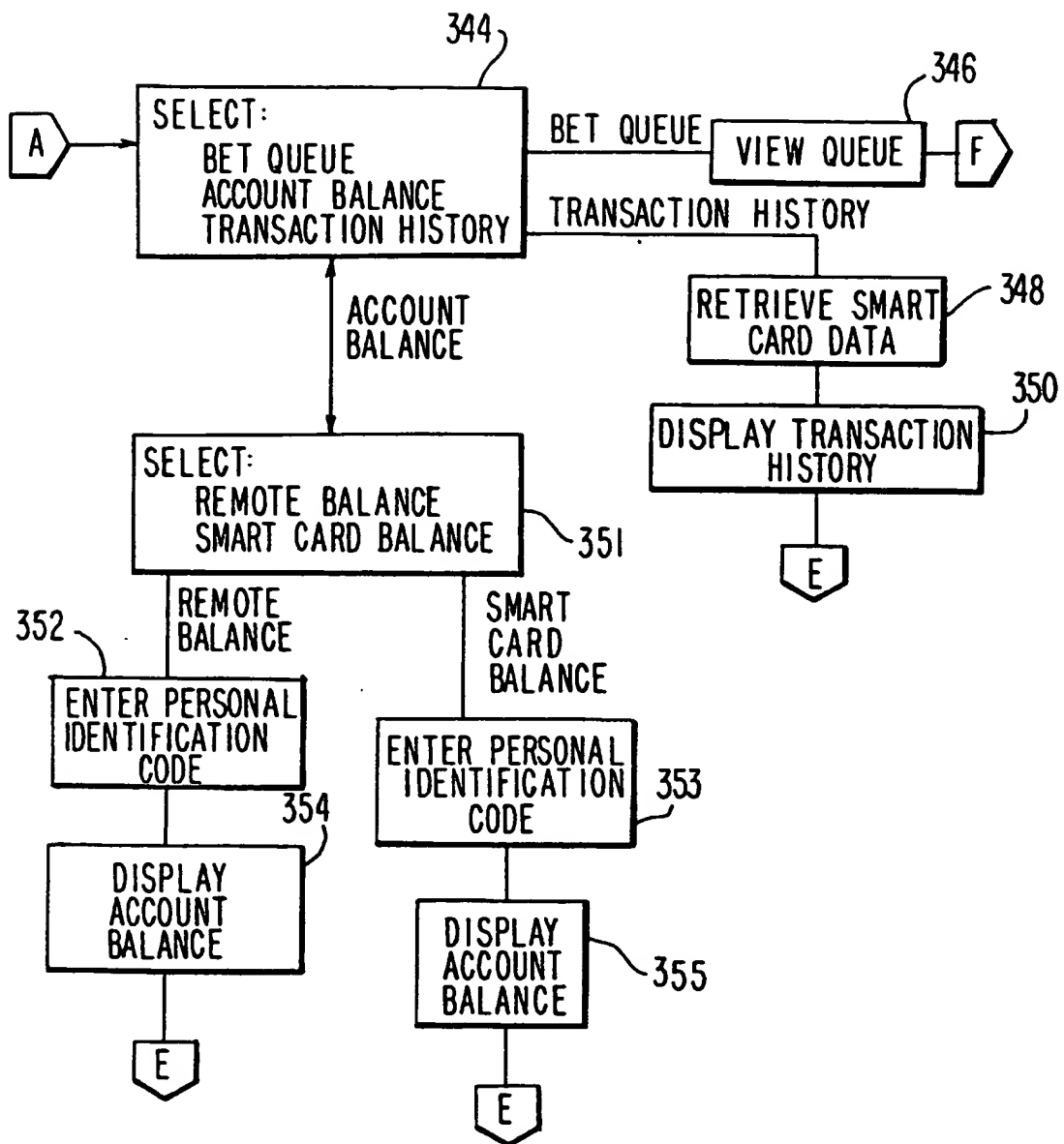
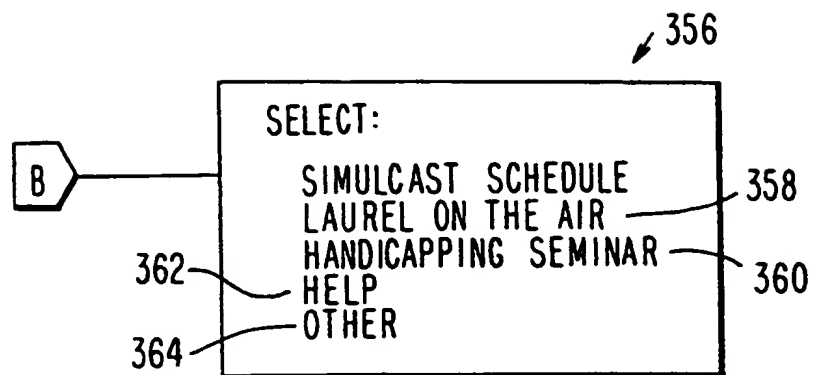


FIG.6

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**FIG. 7**

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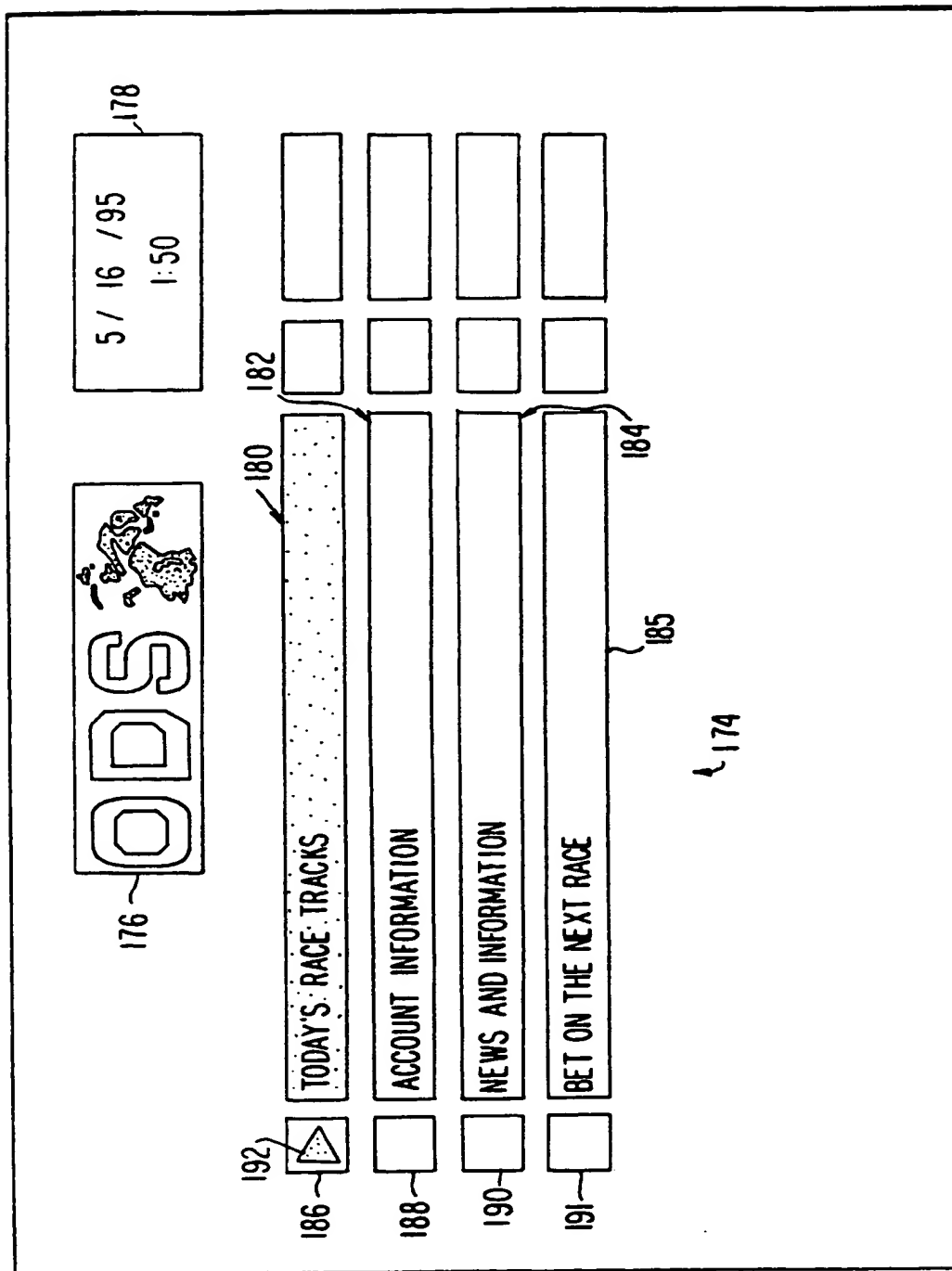



FIG. 8

186


9/50

5 / 16 / 95
1:50

ODS



192



198

PIMLICO

HIALEAH PARK

PHILADELPHIA PARK

RACE

3

2

3

POST

1:56

1:28

1:41

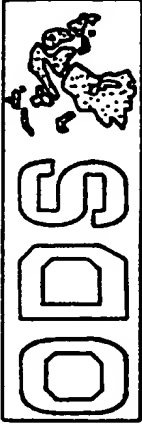
200

202

FIG. 9

10/50

PIM



5 / 16 / 95
1:50

| | | | POST |
|-------------------------------------|-----------|--------------------------|--------|
| <input type="checkbox"/> | RACE 1 | <input type="checkbox"/> | 12:00 |
| <input type="checkbox"/> | RACE 2 | <input type="checkbox"/> | 1:26 |
| <input checked="" type="checkbox"/> | RACE 3 | <input type="checkbox"/> | 1:56 |
| <input type="checkbox"/> | RACE 4 | <input type="checkbox"/> | 1:30 |
| <input type="checkbox"/> | RACE 5 | <input type="checkbox"/> | 2:00 |
| <input type="checkbox"/> | RACE 6 | <input type="checkbox"/> | 2:30 |
| <input checked="" type="checkbox"/> | CONTINUED | <input type="checkbox"/> | 1 OF 2 |

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FIG. 10

11/50

| | | | | |
|-------------------------------------|-----------|--|---------------------|--------|
| PIM | OOS | | 5 / 16 / 95 1:50 | |
| <input type="checkbox"/> | RACE 7 | | POST | 3:00 |
| <input type="checkbox"/> | RACE 8 | | | 3:00 |
| <input checked="" type="checkbox"/> | CONTINUED | | | 2 OF 2 |

FIG. 11

12/50

FIG. 12

218

220

222

PIM - 3

7:56
19 MIN.
TO POST.

225

\$ SELECT AMOUNT \$

224

1 2 3

4 5 10 15

20 25 50 75

100 150

226

GO BACK

DONE

228

216

ODDS

1 2 3 4 5 6 7 8 9

20 8 9-2 7-2 8 3 6 10 8

13/50

FIG. 13

The interface is divided into several functional areas:

- ODDS:** A list of betting odds for numbers 1 through 9.

| Number | Odds |
|--------|-------|
| 1 | 20 |
| 2 | 8 |
| 3 | 9 - 2 |
| 4 | 7 - 2 |
| 5 | 8 |
| 6 | 3 |
| 7 | 6 |
| 8 | 10 |
| 9 | 8 |
- SELECT BET TYPE:** A central area with buttons for different bet types: WIN, WS, PLC, WPS (highlighted with a dashed border and label 234), SHW, WP, and EXA.
- PIM - 3:** A section on the right showing a timer '1:50 19 MIN TO POST' and a bet amount '\$5' (with label 236) next to a large empty box.
- Navigation:** Buttons for 'GO BACK' and 'DONE' are located below the 'SELECT BET TYPE' area. A 'BOX' button is also present.
- Footer:** A large empty rectangular box at the bottom right of the screen.

14/50

FIG. 14

| ODDS | |
|------|-------|
| 1 | 20 |
| 2 | 8 |
| 3 | 9 - 2 |
| 4 | 7 - 2 |
| 5 | 8 |
| 6 | 3 |
| 7 | 6 |
| 8 | 10 |
| 9 | 8 |

SELECT BET TYPE

WIN

WS

PLC

WPS

SHW

EXA

WP

BOX

DONE

GO BACK

PIM - 3

1:50
19 MIN.
TO POST

\$5 EXA

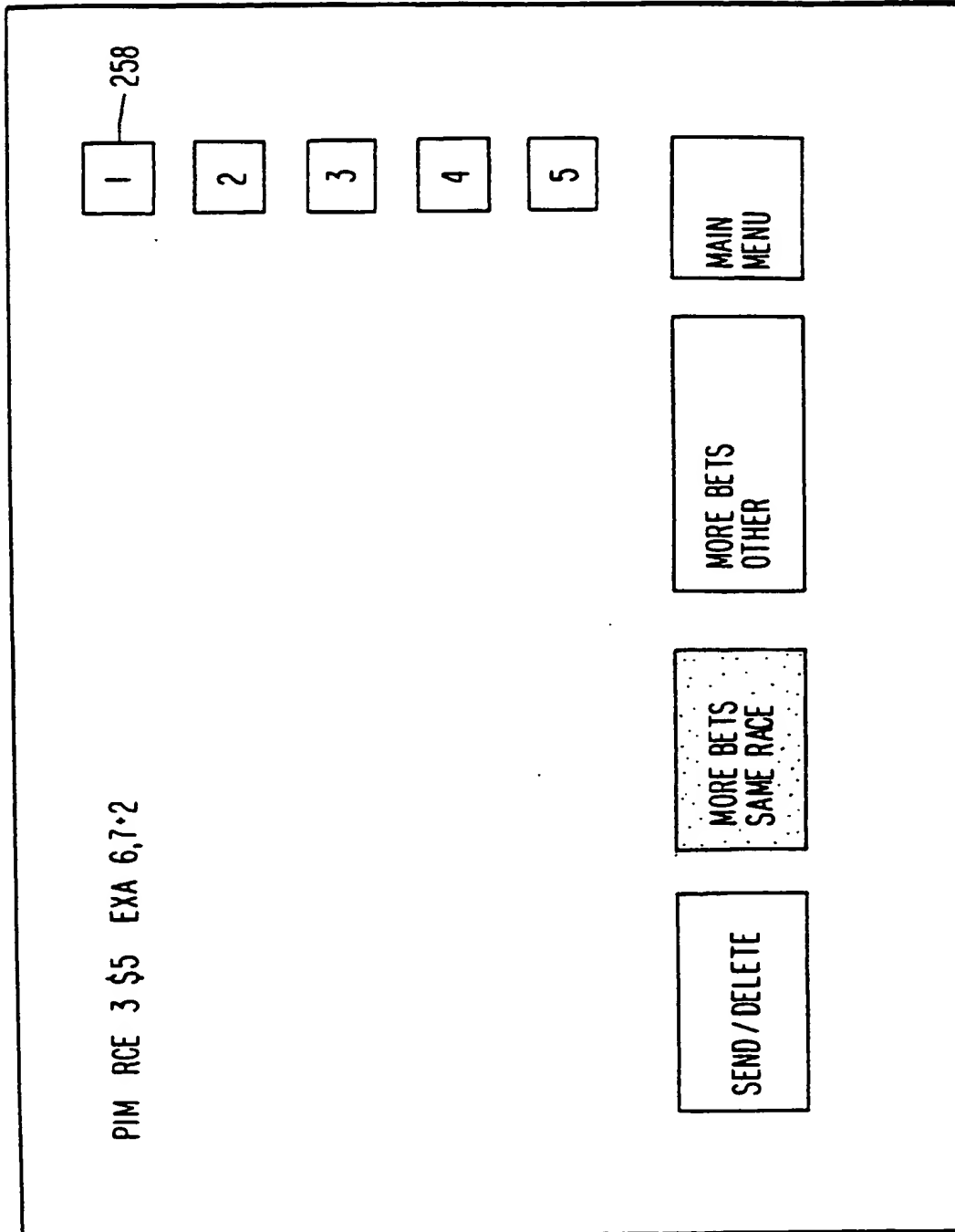
FIG. 15

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----|------------------------------------|---|---|---|---|-----|---|-----|---|---|---|---|---|---|---|----|---|---|---|--|---|---|---|---|---|---|---|---|---|--|--|--|--|
| <div>ODDS</div> <table> <tr><td>1</td><td>20</td></tr> <tr><td>2</td><td>8</td></tr> <tr><td>3</td><td>9-2</td></tr> <tr><td>4</td><td>7-2</td></tr> <tr><td>5</td><td>8</td></tr> <tr><td>6</td><td>3</td></tr> <tr><td>7</td><td>6</td></tr> <tr><td>8</td><td>10</td></tr> <tr><td>9</td><td>8</td></tr> </table> | | 1 | 20 | 2 | 8 | 3 | 9-2 | 4 | 7-2 | 5 | 8 | 6 | 3 | 7 | 6 | 8 | 10 | 9 | 8 | <div>SELECT HORSE</div> <table> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>5</td> <td>6</td> <td>7</td> <td>8</td> </tr> <tr> <td>9</td> <td colspan="3"></td> </tr> </table> <div>ALL</div> | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | <div>PIM-3</div> <div>1:50 19 MIN. TO POST</div> |
| 1 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 9-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 7-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 6 | 7 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <div>GO BACK</div> <div>DONE</div> | <div>\$5 EXA TOTAL COST \$10.00</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>1ST 2ND</div> <div>6.7 ← 246 2 ← 248</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

16/50

256

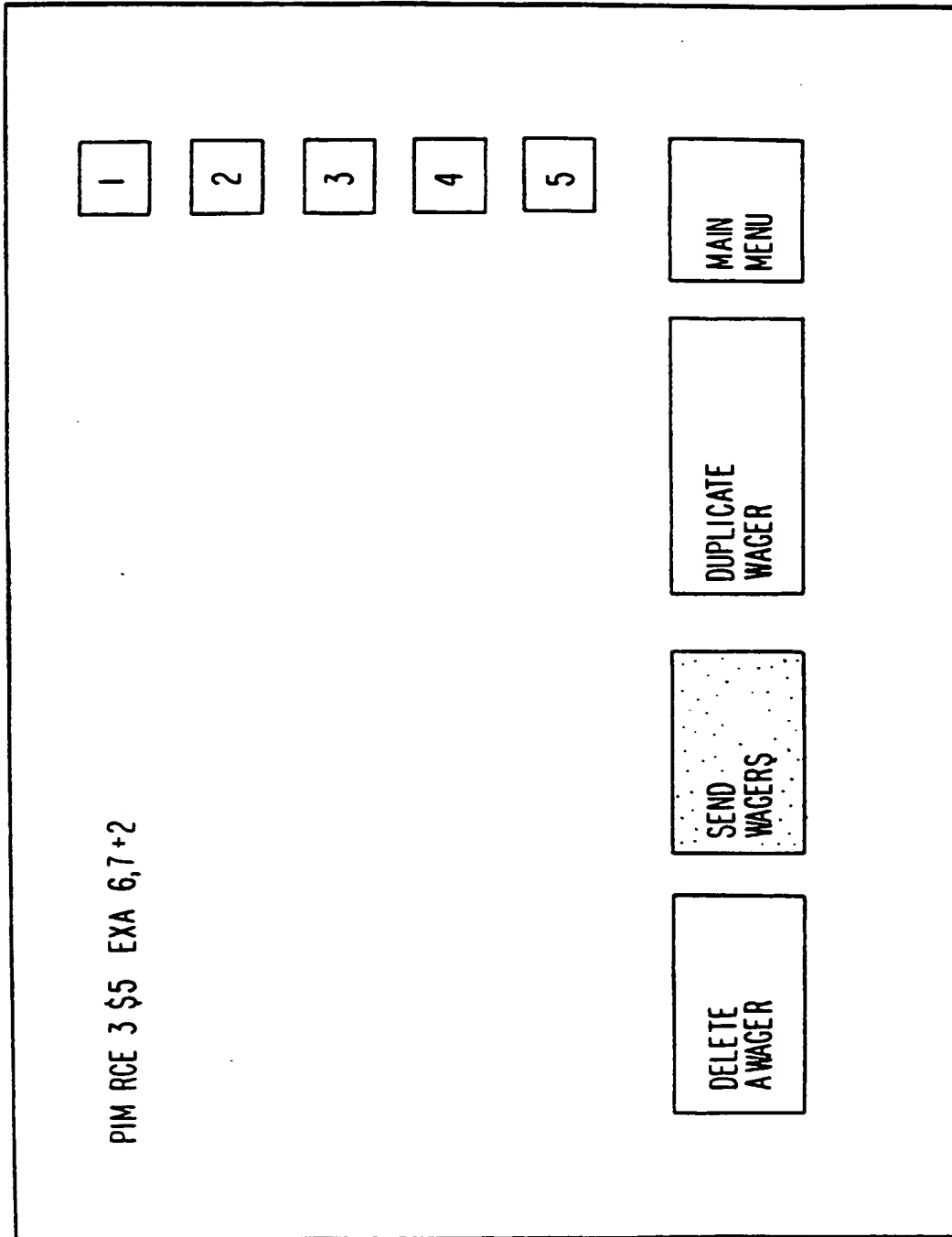
FIG. 16



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FIG. 17



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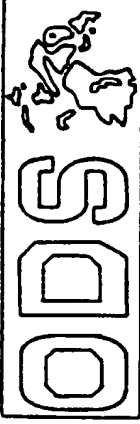
| PIM RCE 3 | |  | | 5 / 16 / 95 1:50 | |
|--------------|------|--|-------|---------------------|--|
| HRS | ODDS | WIN | PLACE | SHOW | |
| 1 | 20/1 | 70 | 19 | 21 | |
| 2 | 8/1 | 91 | 24 | 12 | |
| 3 | 9/2 | 126 | 43 | 31 | |
| 4 | 7/2 | 128 | 17 | 8 | |
| 5 | 8/1 | 97 | 51 | 32 | |
| 6 | 3/1 | 340 | 110 | 117 | |
| 7 | 6/1 | 176 | 61 | 20 | |
| 8 | 10/1 | 19 | 11 | 5 | |
| TOTALS (ALL) | | 1102 | 350 | 255 | |

FIG.18

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19/50

FIG. 19

| ODDS | 1 AND | AND 1 |
|------|-------|-------|
| 1 | 20 | -- |
| 2 | 8 | 159 |
| 3 | 9-2 | 222 |
| 4 | 7-2 | 365 |
| 5 | 8 | 255 |
| 6 | 3 | 189 |
| 7 | 6 | 111 |
| 8 | 10 | 567 |
| 9 | 8 | 1022 |

PIM - 3

1:50
19 MIN.
TO POST

EXACTA PAYS

274
POOL: \$ 17,000

(USE UP/DOWN KEYS
FOR NEXT HORSE)

20/50

| | | | | | |
|--------------------------------|----------|------------|------------|--------------|-------|
| RACE 1 | 5.00 | CL \$17.5K | CR68 | \$14.6 | AGE 2 |
| P# HORSE NAME | DAYS OFF | W/ST D-SP | MORN. ODDS | POWER RATING | |
| 1. BIG FUZZY | 2 | 0/3 | 3/1 | 61.7 | |
| 2. TRAE | 13 | 0/2 | 6/1 | 55.5 | |
| 3. DIAMOND RIO | | 0/2 | 10/1 | 0.0 | |
| 4. BUBBA FORBES | | 0/2 | 12/1 | 0.0 | |
| 5. DESIARD | 13 | 0/1 | 6/1 | 56.5 | |
| 6. BYOU BUM | 13 | 0/2 | 8/1 | 56.6 | |
| 7. RUN IN THE FAST LANE | 2 | 0/1 | 12/1 | 51.2 | |
| 8. SURF'S UP DUDE | 13 | 0/1 | 7/2 | 57.7 | |
| 9. RAJA'S BEST SWIN | 13 | 0/2 | 10/1 | 55.7 | |
| USE UP/DOWN KEYS FOR MORE INFO | | | | | |

278**FIG. 20**

21/50

| | | | | | |
|--------------------------------------|-------|-------------------|--------------|---------------|--------------|
| 304 RACE 1 | 5.0 D | 308 CL \$17.5K | 310 CR 68 | 312 \$14.6 | 314 AGE 2 |
| P# HORSE NAME | SR | SR D/S | SR HI | CR | CR LAST |
| 306 1. BIG FUZZY | 0 | 66 | 67 | 68 | 67 |
| 2. TRACE | 177 | 61 | 61 | 69 | 68 |
| 3. DIAMOND RIO | 184 | 0 | 0 | 0 | 0 |
| 4. BUBBA FORBES | 191 | 0 | 0 | 0 | 0 |
| 5. DESIARD | 198 | 62 | 62 | 68 | 68 |
| 6. BYOU BUM | 205 | 61 | 62 | 69 | 68 |
| 7. RUN IN THE FAST LANE | 212 | 58 | 58 | 67 | 67 |
| 8. SURF'S UP DUDE | 219 | 54 | 54 | 68 | 68 |
| 9. ROJA'S BEST SWIN | 226 | 58 | 62 | 69 | 68 |
| USE UP/DOWN ARROW KEYS FOR MORE INFO | | | | | |

302

FIG. 21

22/50

| RACE 1 | | 5.00 | CL\$17.5K | CR 68 | \$14.6 K | AGE 2 |
|--------------------------------|-------------|----------|-----------|-------|----------|-------|
| P# HORSE NAME | | PACE ALL | | | | |
| | | EARLY | MID | FIN | #R | |
| 1. | BIG FUZZY | 3.3 | 3.8 | 3.0 | 10 | |
| 2. | TRACE | 3.4 | 3.7 | 3.0 | 10 | |
| 3. | DIAMOND RIO | ⋮ | ⋮ | ⋮ | ⋮ | |
| 4. | ⋮ | ↑ | ↑ | ↑ | ↑ | |
| 5. | ⋮ | | | | | |
| 6. | | 322 | 324 | 326 | 328 | |
| 7. | | | | | | |
| 8. | | | | | | |
| 9. | | | | | | |
| USE UP/DOWN KEYS FOR MORE INFO | | | | | | |

320**FIG. 22**

23/50

| RACE 1 | | 5.0D | CL \$17.5K | CR68 | \$14.6K | AGE 2 |
|--------------------------------|----------------------|------|------------|------|---------|-------|
| P# | JOCKEY/TRAINER | WINS | 1 | 2 | 3 | |
| 1. | HERBERT, JR / BISANO | 2 | 2 | 4 | 2 | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |
| 9. | | | | | | |
| USE UP/DOWN KEYS FOR MORE INFO | | | | | | |

332**FIG 23**

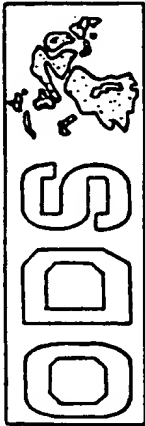
| | | | |
|--------------|--|---------------------|------|
| PIM RCE 2 |  | 5 / 16 / 95 1:50 | |
| RESULTS | | | |
| | WIN | PLACE | SHOW |
| 340 → | 9 | 4.00 | 2.80 |
| | 1 | 3.20 | 2.40 |
| | 2 | | 2.40 |

FIG.24

25/50

5 / 16 / 95
1:50

WTOP 1500AM - RACE DAYS AT 11:15AM
SUNDAYS AT 11:30AM

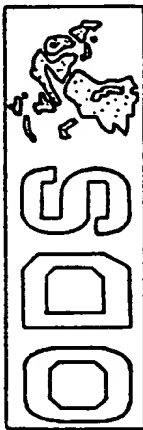
WBAL 1090AM - RACE DAYS AT 10:05AM

WTOP 1500AM - SCRATCHES WITH CLEM FLORIO
RACE DAYS AT 10:20AM, SUNDAYS AT 10:00AM

WWLG 1360AM - RACE RESULTS WITH CLEM
FLORIO. RACE DAYS AT 2:10, 3:45.

FIG.25

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5 / 16 / 95
1:50

RACE ANALYSIS AND COMMENTARY.

EVERY SATURDAY AND SUNDAY AT 11:05AM

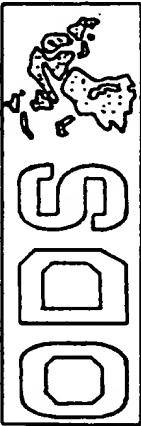
FIRST FLOOR CLUBHOUSE

PLUS FREE COFFEE AND DOUGHNUTS.

AT THE LAUREL RACETRACK

FIG.26

27/50



5 / 16 / 95
1:50

USE THE ARROW KEYS TO MOVE AROUND THE SCREEN. SELECT ON OPTION WITH THE BLUE "ENTER" BUTTON. JUST PICK A TRACK AND EXPLORE THE INFORMATION AVAILABLE: ODDS ON THE CURRENT RACE—YOUR OWN IN-HOME TOTE BOARD, HANDICAPPING TIPS, LATE CHANGES AND MORE. IF YOU HAVE AN ACCOUNT, PLACE A WAGER AND SEND IT TO THE TRACK WITH YOUR REMOTE CONTROL.

TO SET UP A WAGERING ACCOUNT OR FOR CUSTOMER SERVICE CALL: 1-800-XXX-XXXX.

FIG. 27

28/50

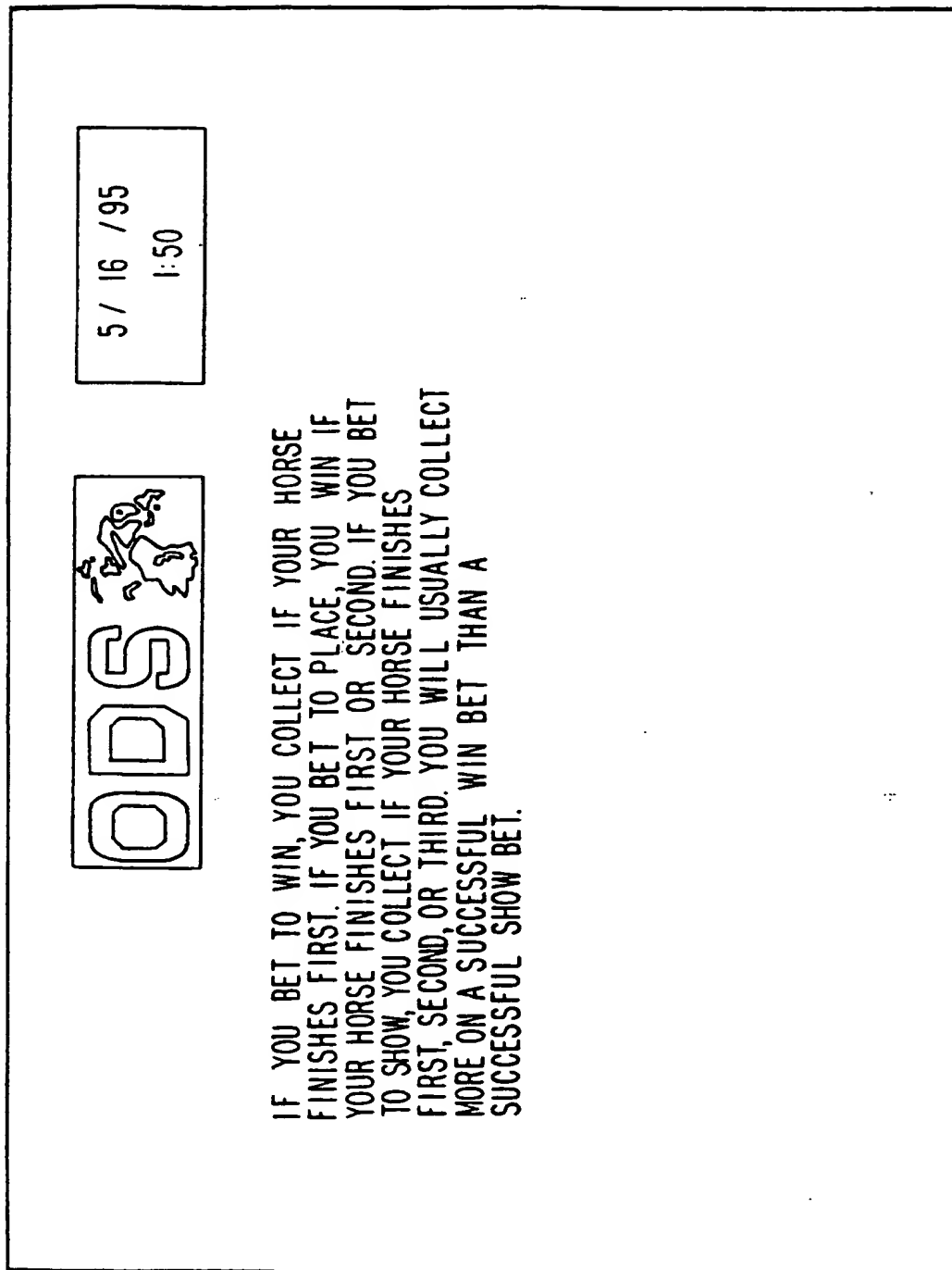


FIG. 28

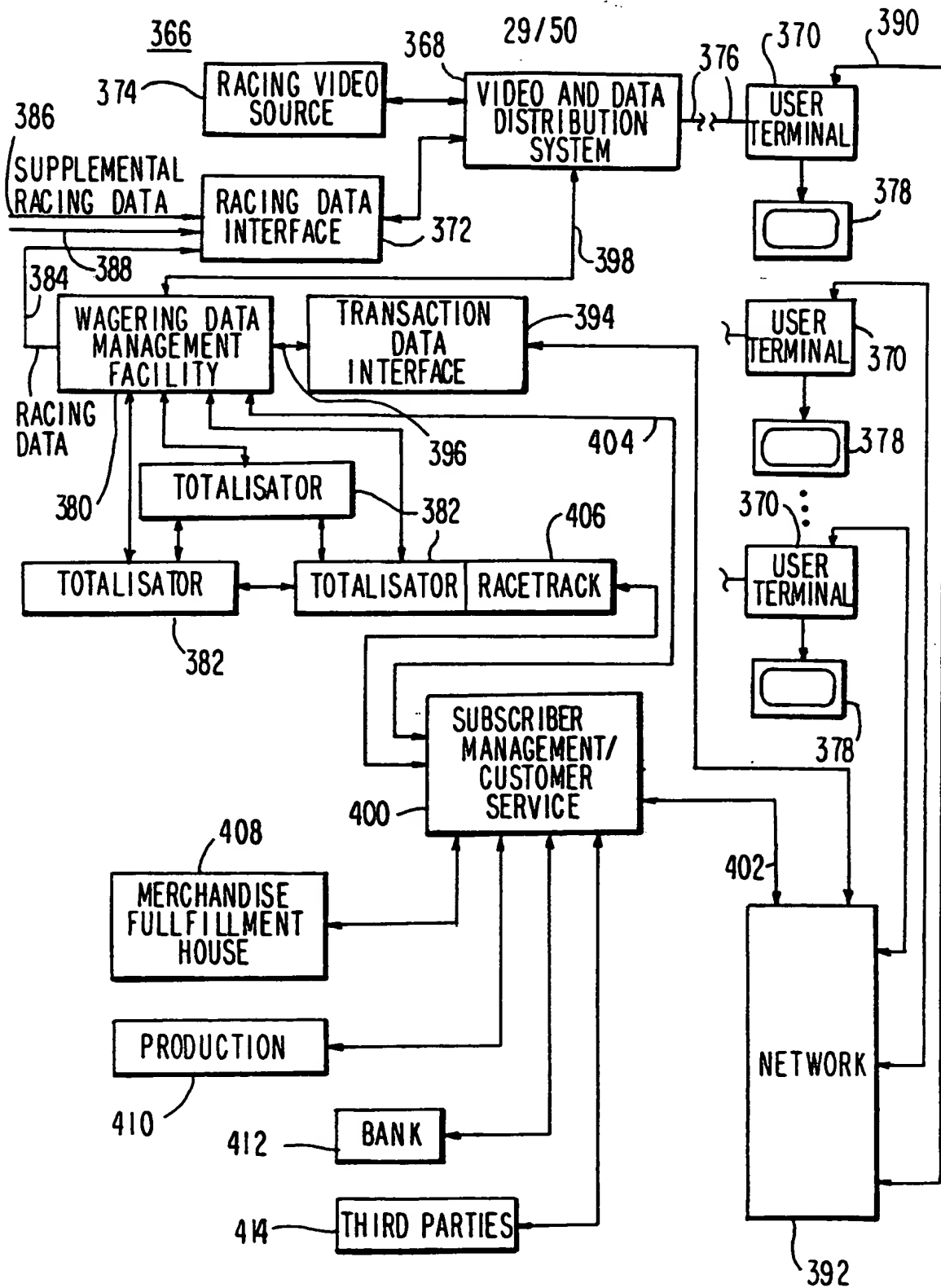


FIG. 29

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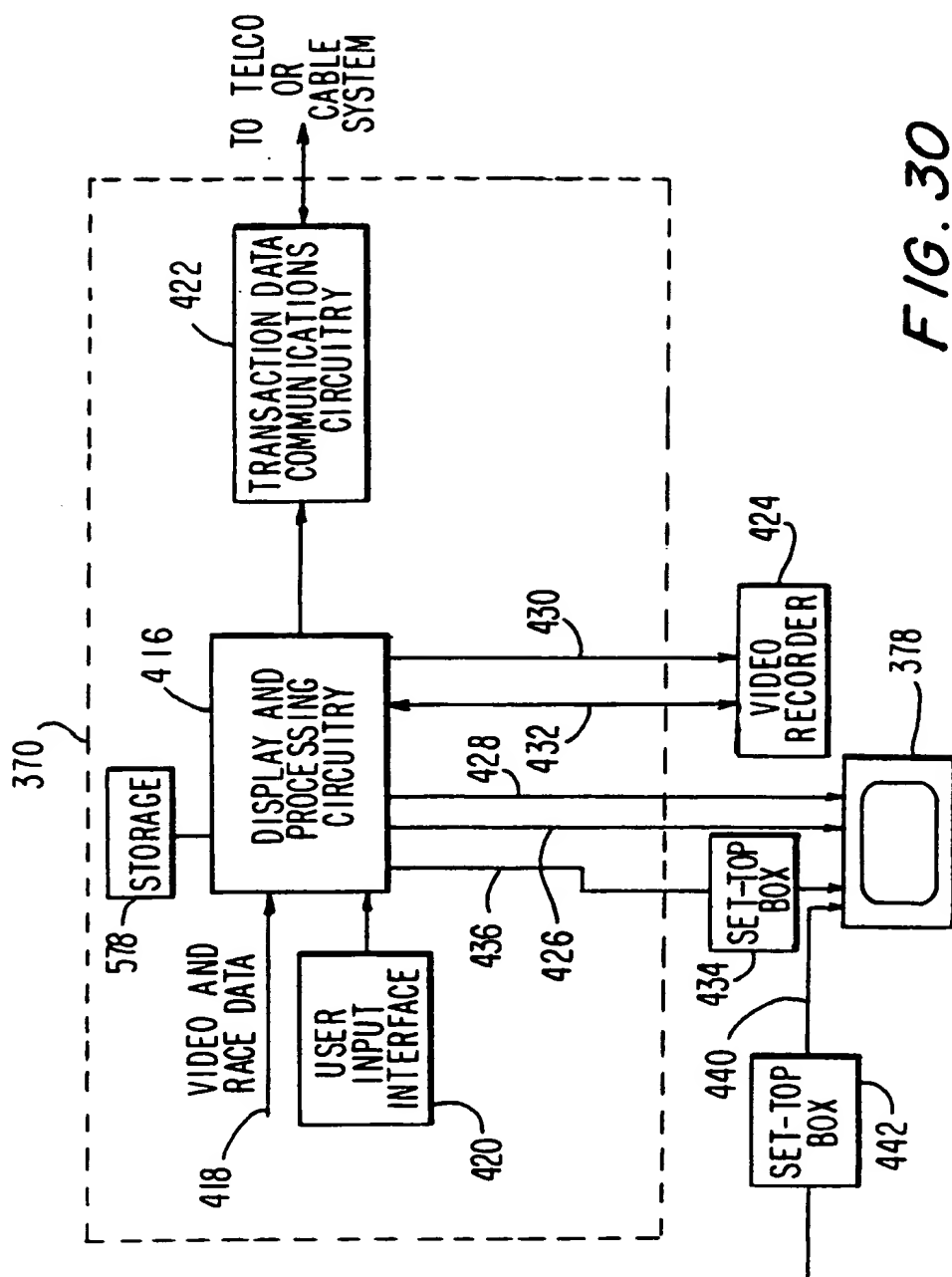
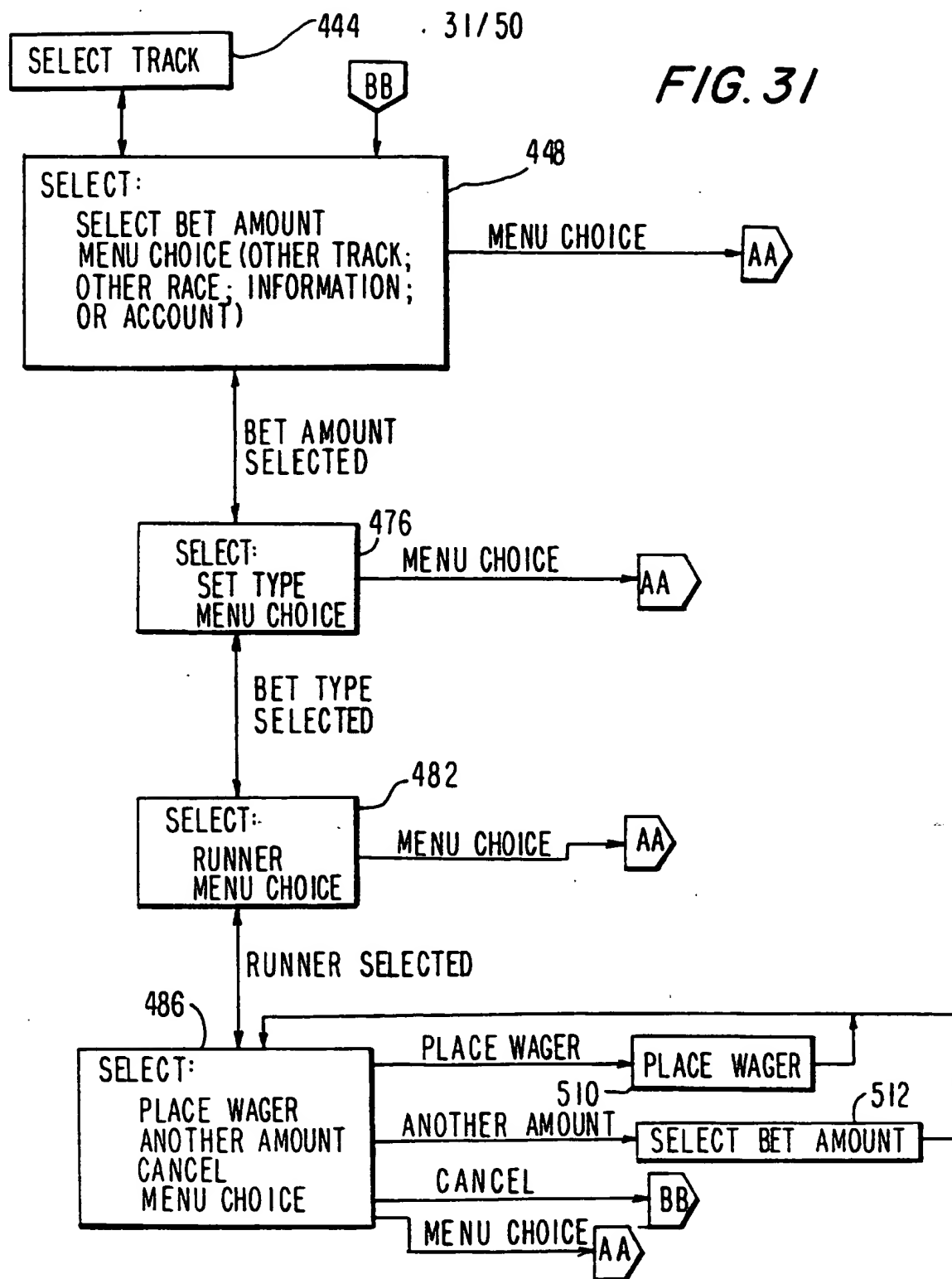


FIG. 30



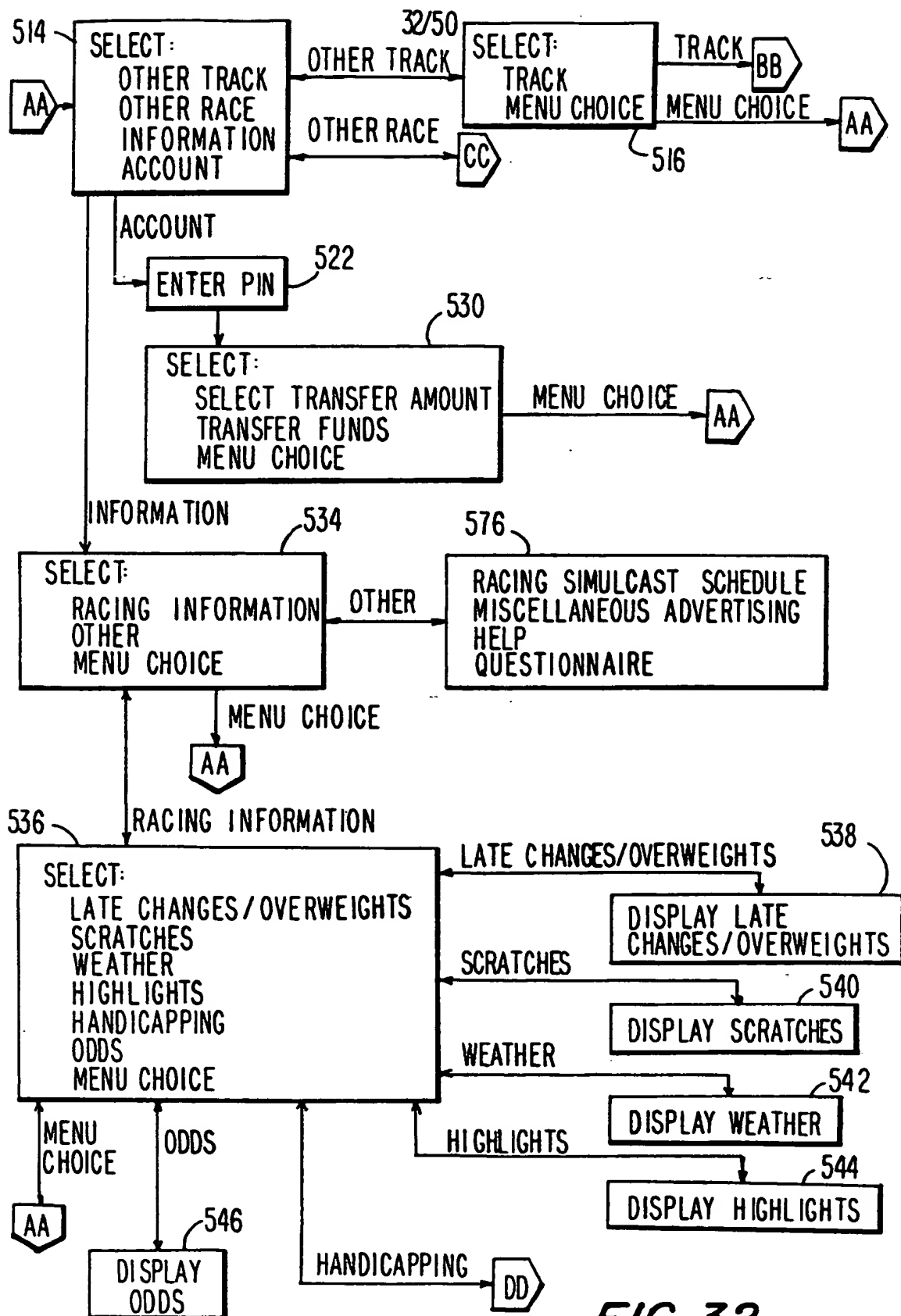


FIG. 32

33/50

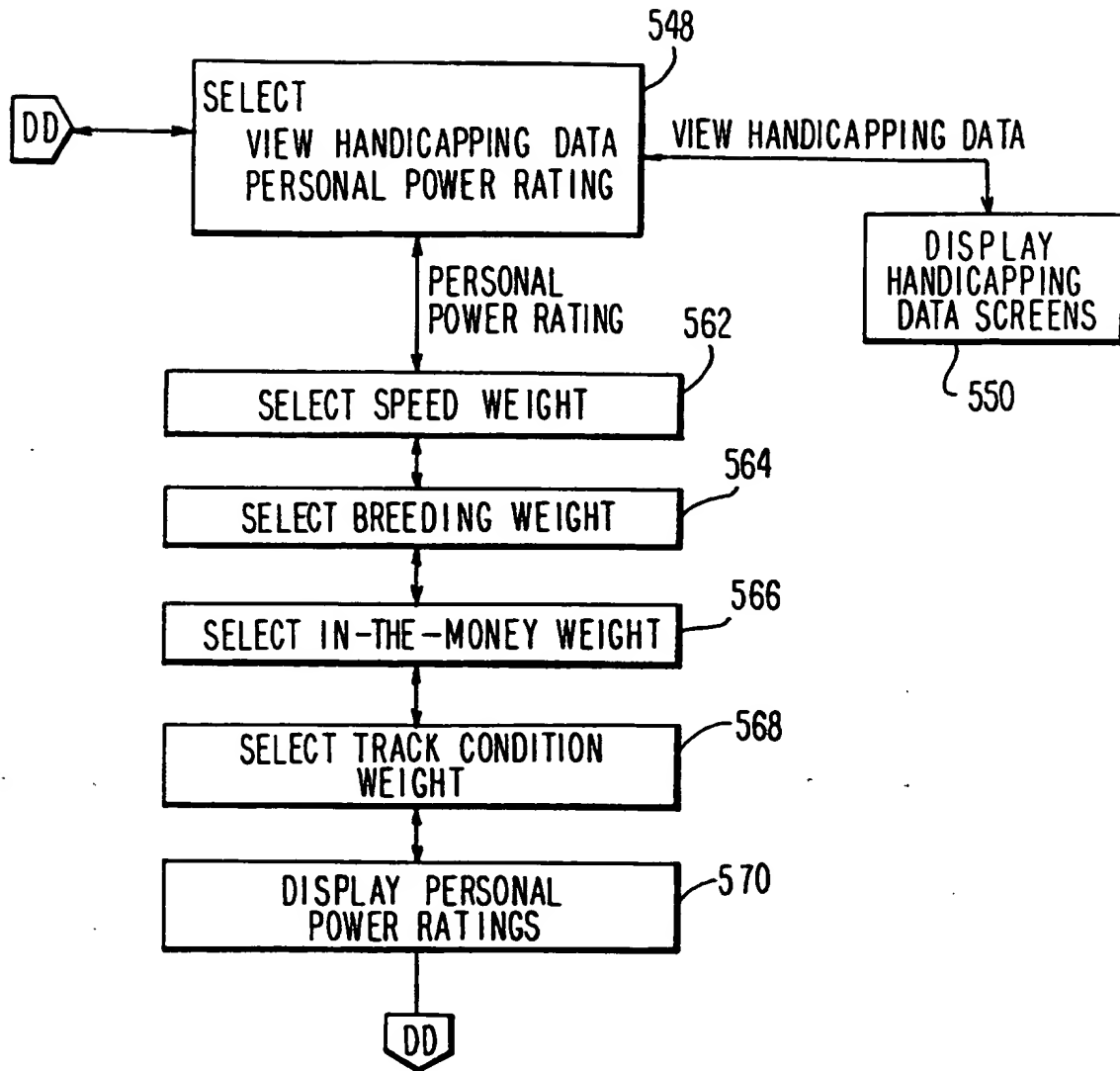


FIG. 33

34 / 50

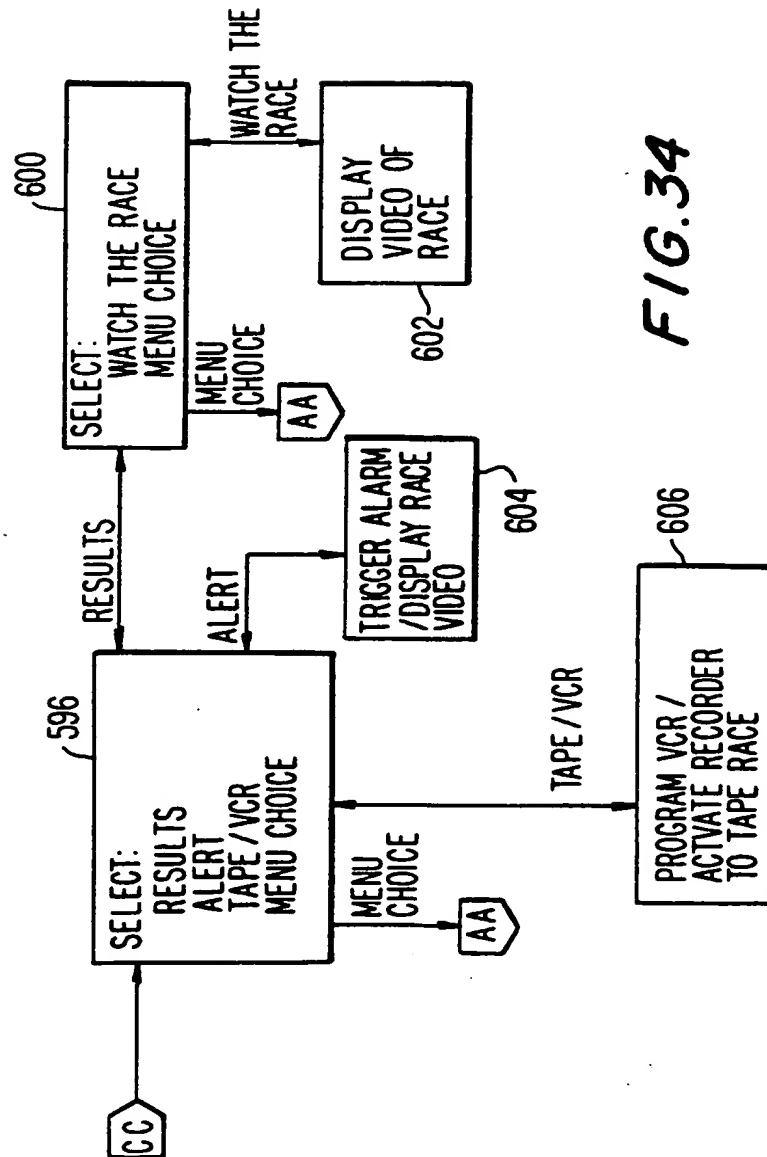


FIG. 34

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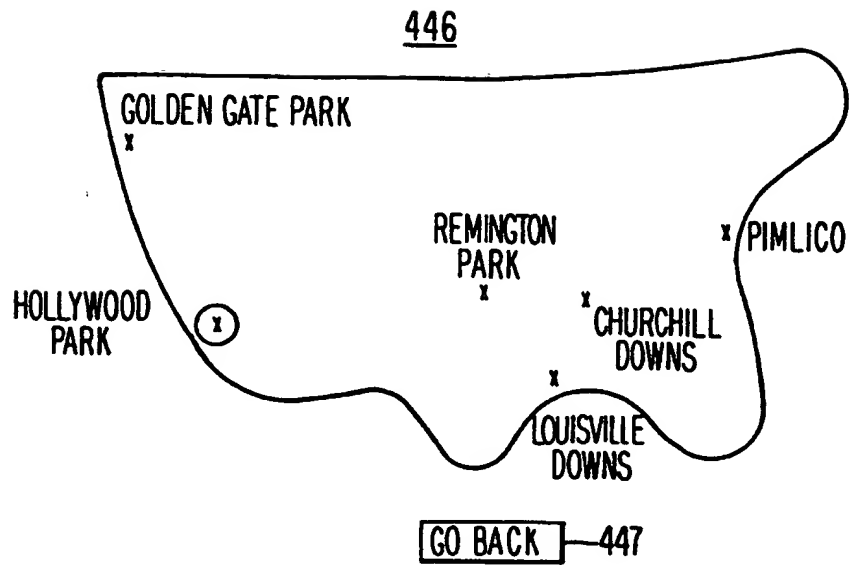


FIG. 35

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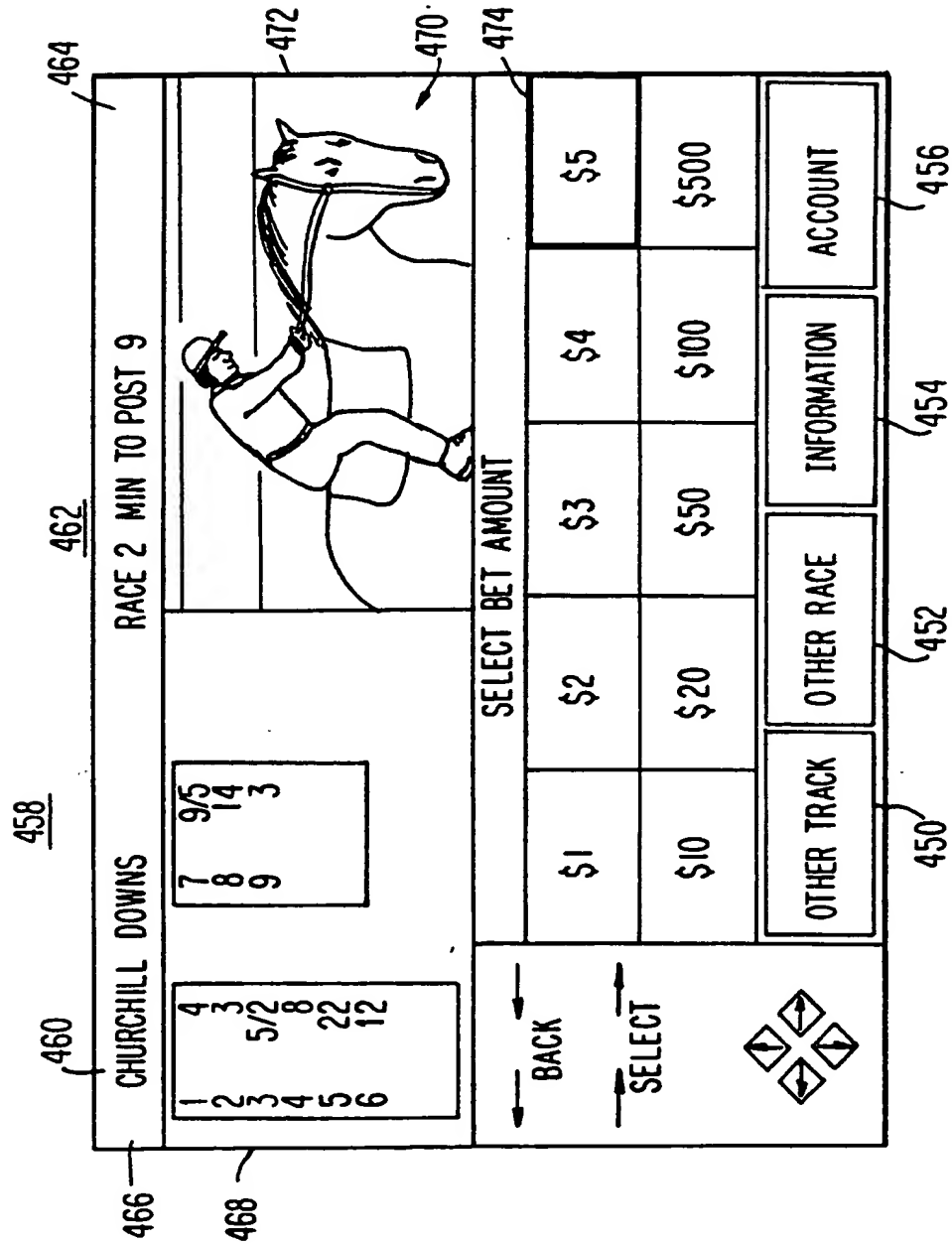


FIG. 36

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466 — CHURCHILL DOWNS

468 —


| | |
|---|-----|
| 1 | 4 |
| 2 | 3 |
| 3 | 5/2 |
| 4 | 8 |
| 5 | 22 |
| 6 | 12 |

RACE 2 MIN TO POST 9

| | |
|---|-----|
| 7 | 9/5 |
| 8 | 14 |
| 9 | 3 |

470 —

472 —



450 —

452 —

454 —

456 —

478 —

| SELECT BET TYPE | | | |
|-----------------|------------|-------------|--------------|
| WIN | PLACE | SHOW | EXACTA |
| TRIFECTA | QUINIELA | PICK 6 | DAILY DOUBLE |
| OTHER TRACK | OTHER RACE | INFORMATION | ACCOUNT |

BACK

SELECT 480





FIG. 37

38/50

| CHURCHILL DOWNS | | RACE 2 MIN TO POST 9 | | | | |
|--|--|---|---|-------------|---|---------|
| <div style="border: 1px solid black; padding: 5px;"> 1 2 3 4 5 6 4 3 5/2 8 22 12 </div> | <div style="border: 1px solid black; padding: 5px;"> 7 8 9 9/5 14 3 </div> |  | | | | |
| SELECT HORSES | | | | | | |
| <div style="display: flex; justify-content: space-around;"> ← BACK SELECT → </div> | 1 | 2 | 3 | 4 | 5 | 6 |
| | 7 | 8 | 9 | | | |
| OTHER TRACK | | OTHER RACE | | INFORMATION | | ACCOUNT |

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FIG. 38

39/50




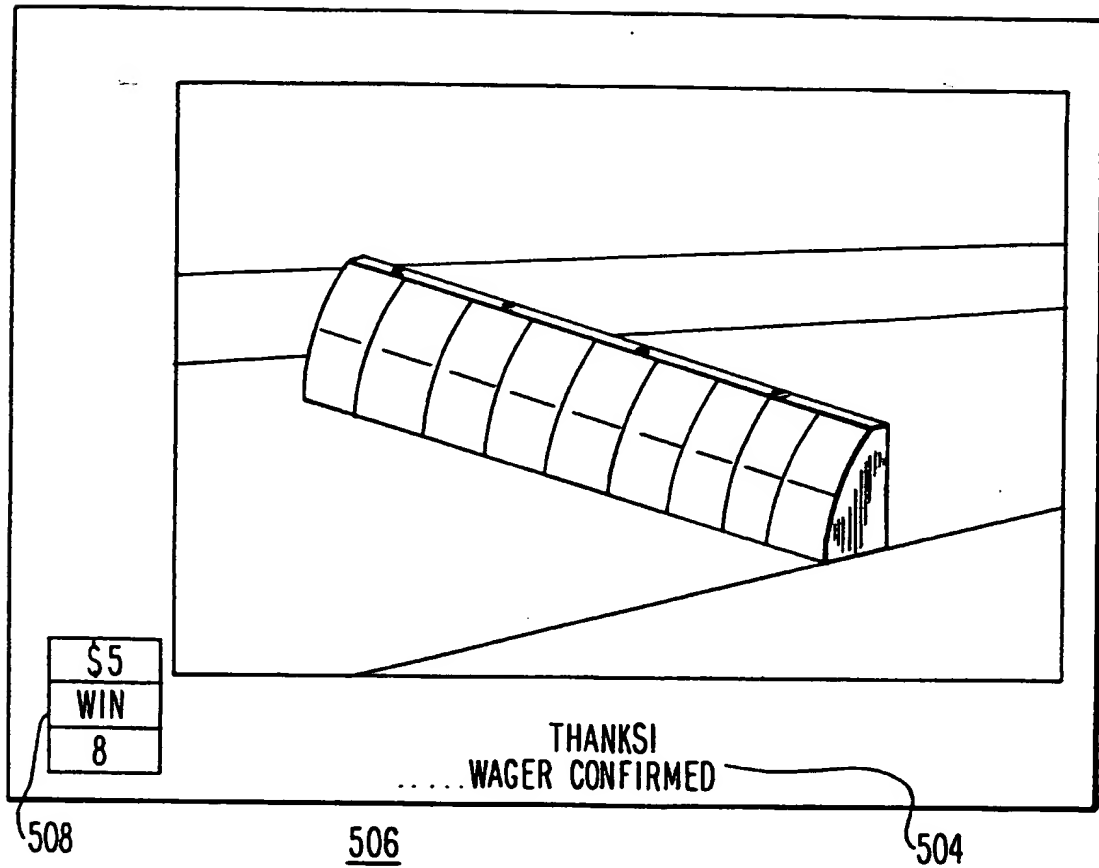
| | | | |
|---|--|--|--|
| CHURCHILL DOWNS | | RACE 2 MIN TO POST 9 | |
| <div> <div>1 2 3 4 5 6</div> <div>4 3 5/2 8 22 12</div> </div> | | <div> <div>7 8 9</div> <div>9/5 14 3</div> </div> | |
| <div> <div>BACK</div> <div>SELECT</div> <div>  </div> </div> | | <div> <div>WAGER 1</div> <div>AMOUNT \$5</div> <div>BET 500</div> <div>HORSE (S) 502</div> </div> | |
| | | <div> <div>496</div> <div>   </div> </div> | |
| | | <div> <div>488</div> <div>PLACE WAGER</div> </div> | |
| | | <div> <div>490</div> <div>ANOTHER AMOUNT</div> </div> | |
| | | <div> <div>492</div> <div>CANCEL</div> </div> | |
| <div> <div>450</div> <div>OTHER TRACK</div> </div> | | <div> <div>452</div> <div>OTHER RACE</div> </div> | <div> <div>454</div> <div>INFORMATION</div> </div> |
| <div> <div>456</div> <div>ACCOUNT</div> </div> | | | |

FIG. 39

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**FIG. 40**


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| | | | |
|---|--|--|--|
| CHURCHILL DOWNS | | RACE 2 MIN TO POST 9 | |
| <div> <div>4</div> <div>3</div> <div>5/2</div> <div>8</div> <div>22</div> <div>12</div> </div> <div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> </div> | | <div> <div>7</div> <div>8</div> <div>9</div> </div> <div> <div>9/5</div> <div>14</div> <div>3</div> </div> | |
| | | | |
| <div> <div>←</div> <div>BACK</div> <div>→</div> </div> | | SELECT TRACK | |
| | | REMINGTON PARK | |
| | | LAUREL | |
| | | OAKLAND | |
| | | BELMONT | |
| | | <div> <div>SELECT</div> <div>→</div> </div> | |
| | | OTHER TRACK | |
| | | OTHER RACE | |
| | | INFORMATION | |
| | | ACCOUNT | |

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FIG. 41


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| CHURCHILL DOWNS | | RACE 2 MIN TO POST 9 | |
|---|--|--|--|
| <div> <div>1 2 3 4 5 6</div> <div>4 3 5/2 8 22 12</div> </div> | | <div> <div>7 8 9</div> <div>9/5 14 3</div> </div> | |
| <div> <div>← BACK</div> <div>SELECT →</div> <div>  </div> </div> | | <div> <div>ENTER PIN</div> <div> <div>521 0</div> <div>0</div> <div>0</div> <div>0</div> <div>0</div> <div>521</div> </div> </div> | |
| <div> <div>OTHER TRACK</div> <div>OTHER RACE</div> <div>INFORMATION</div> <div>ACCOUNT</div> </div> | | | |

520

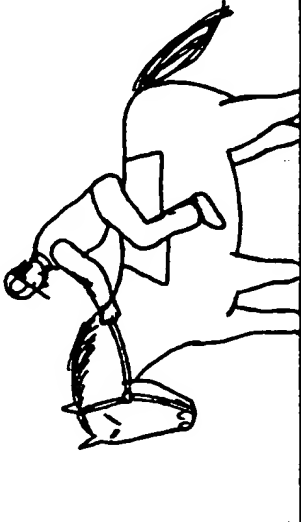

FIG. 42

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| | | | |
|---|--|---|--|
| CHURCHILL DOWNS | | RACE 2 MIN TO POST 9 | |
| <div> <div>1 2 3 4 5 6</div> <div>4 3 5/2 8 22 12</div> </div> | | <div> <div>7 8 9</div> <div>9/5 14 3</div> </div> | |
|  | | <div> <div>\$180.20</div> <div>526</div> </div> | |
| | | <div> <div>ODS ACCOUNT BALANCE</div> <div>526</div> </div> | |
| <div> <div>BACK</div> <div>528</div> </div> | | <div> <div>SELECT TRANSFER AMOUNT</div> <div>528</div> </div> | |
| <div> <div>\$10</div> <div>\$20</div> <div>\$50</div> <div>\$100</div> <div>\$500</div> </div> | | <div> <div>TRANSFER FUNDS</div> <div>532</div> </div> | |
| <div> <div>OTHER TRACK</div> <div>OTHER RACE</div> <div>INFORMATION</div> <div>ACCOUNT</div> </div> | | <div> <div>532</div> </div> | |

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FIG. 43

| | | | |
|--|--------------------------------------|--|--|
| CHURCHILL DOWNS | | RACE 2 MIN TO POST 9 | |
| <div>1 2 3 4 5 6</div> <div>4 3 5/2 8 22 12</div> | <div>7 8 9</div> <div>9/5 14 3</div> |  | |
| SELECT INFORMATION CATEGORY | | | |
| LATE CHANGES/OVERWEIGHTS | | | |
| SCRATCHES | | | |
| WEATHER | | | |
| HANDICAPPING | | | |
| <div>← BACK</div> <div>SELECT →</div> <div></div> | | <div>OTHER TRACK</div> <div>OTHER RACE</div> <div>INFORMATION</div> <div>ACCOUNT</div> | |

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| <u>RUNNER NO.</u> | <u>ODDS</u> | <u>ODDS PERCENTAGE</u> |
|-------------------|-------------|----------------------------|
| 1 | 20 | 5.0 % |
| 2 | 8 | 12.5 % |
| 3 | 9/2 | 22.2 % |
| 4 | 7/2 | 28.6 % |
| 5 | 9/5 | 55.6 % |
| 6 | 3 | 33.3 % |
| 7 | 6 | 16.7 % |
| 8 | 5 | 20.0 % |
| 9 | 10 | 10.0 % |

FIG. 45

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---------|-------------|------------|-------------|---------|---|---|----------|---|---|---|---|---|--------------|---|---|---|---|---|-----------------|---|---|---|---|---|
| CHURCHILL DOWNS | | RACE 2 MIN TO POST 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> 1 2 3 4 5 6 </div> <div style="border: 1px solid black; padding: 5px;"> 4 3 5/2 8 22 12 </div> | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> 7 8 9 </div> <div style="border: 1px solid black; padding: 5px;"> 9/5 14 3 </div> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SELECT YOUR PERSONAL POWER RATING | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> 554 ← BACK 556 → SELECT </div> | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">SPEED</td> <td style="width: 25%;">1</td> <td style="width: 25%;">2</td> <td style="width: 25%;">3</td> <td style="width: 25%;">4</td> <td style="width: 25%;">5</td> </tr> <tr> <td>BREEDING</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>IN-THE-MONEY</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>TRACK CONDITION</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </table> | | SPEED | 1 | 2 | 3 | 4 | 5 | BREEDING | 1 | 2 | 3 | 4 | 5 | IN-THE-MONEY | 1 | 2 | 3 | 4 | 5 | TRACK CONDITION | 1 | 2 | 3 | 4 | 5 |
| SPEED | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | |
| BREEDING | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | |
| IN-THE-MONEY | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | |
| TRACK CONDITION | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-around;"> 558 ← 560 ↖ ↗ </div> | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">OTHER TRACK</td> <td style="width: 25%; text-align: center;">OTHER RACE</td> <td style="width: 25%; text-align: center;">INFORMATION</td> <td style="width: 25%; text-align: center;">ACCOUNT</td> </tr> </table> | | OTHER TRACK | OTHER RACE | INFORMATION | ACCOUNT | | | | | | | | | | | | | | | | | | | | |
| OTHER TRACK | OTHER RACE | INFORMATION | ACCOUNT | | | | | | | | | | | | | | | | | | | | | | | | |

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FIG. 46

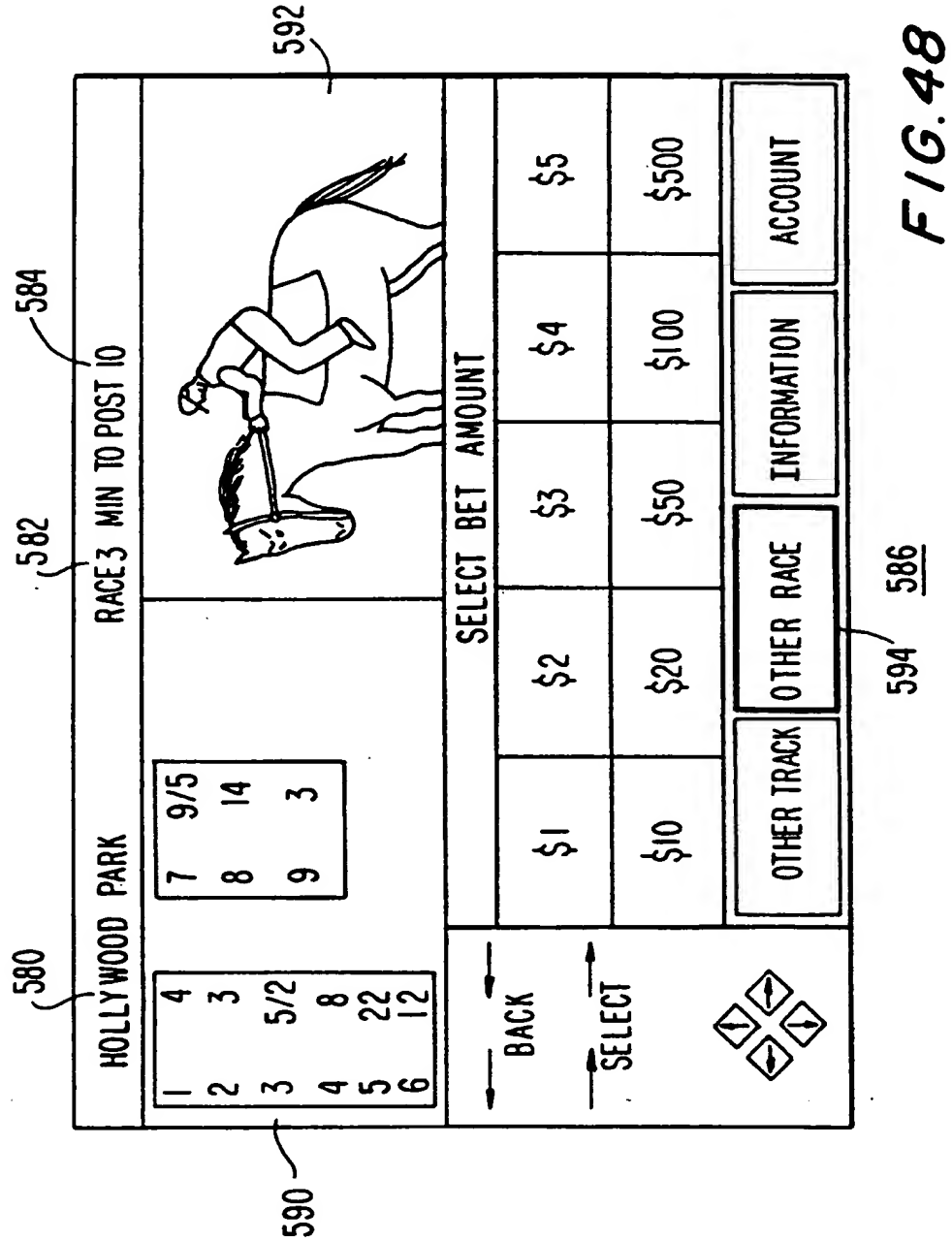
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FIG. 47

| ODS | PERSONAL POWER RATING RACE 3 | | | | | | | | | |
|-----|------------------------------|---|---|---|---|---|---|---|---|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 65 |
| 1 | | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |

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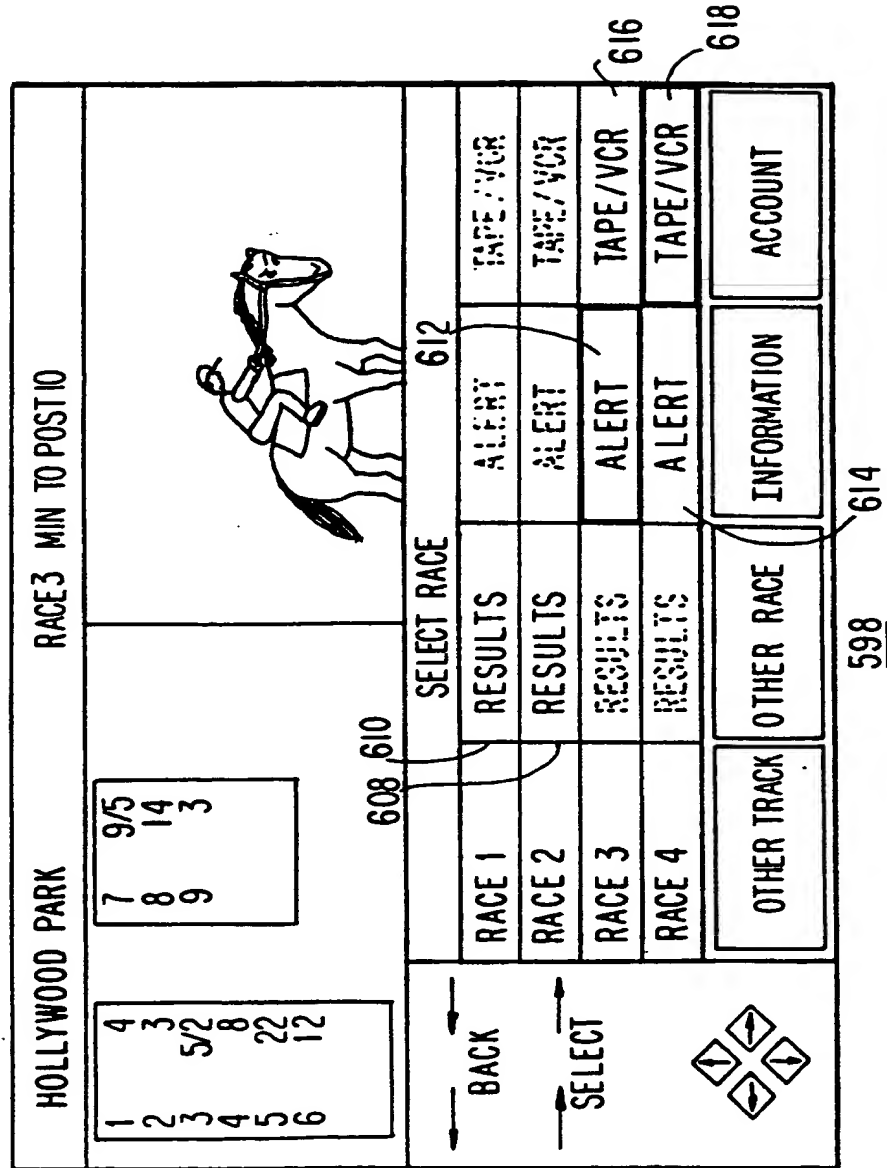


FIG. 49

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| HOLLYWOOD PARK | | RACE 1 | | OFFICIAL |
|--|----------------|-------------|------|---|
| 4 CALAMITY JANE | 8.60 | 6.00 | 3.20 |  |
| 10 CISCO KID | 4.60 | 2.80 | | |
| 6 CASH-IN-HAND | | 2.40 | | |
| EX: \$ 62.80 | TRI: \$ 128.40 | 1:12 | 2/5 | |
| <div>  BACK </div> <div>  SELECT </div> <div>  </div> | | RESULTS | | |
| <div>WACH THE RACE!</div> <div>99¢</div> | | | | |
| OTHER TRACK | | OTHER RACE | | ACCOUNT |
| | | INFORMATION | | |

FIG. 50

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 96/14068

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 G07F17/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 G07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| Y | EP,A,0 620 688 (NEWS DATACOM) 19 October 1994 see column 12, line 1 - line 10; figures 1-6 --- | 1-132 |
| Y | GB,A,2 229 565 (BARCREST) 26 September 1990 see page 6, line 19 - page 8, line 26; figures --- | 1-132 |
| A | EP,A,0 450 520 (GANOT) 9 October 1991 see column 5, line 38 - column 6, line 7; figures --- | |
| A | WO,A,81 01664 (REMOTE DYNAMICS) 25 June 1981 see page 4, line 24 - page 6, line 6; figures 1,2 ----- | |

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

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Date of the actual completion of the international search

29 January 1997

Date of mailing of the international search report

19. 02. 97

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Neville, D

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 96/14068

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
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